



County Palatine of Chester

REPORT

for the Year

1946

BY THE

County Medical Officer of Health

Presented to the
Public Health and Housing Committee
OF THE COUNTY COUNCIL

9th October, 1947.

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INDEX

	PAGE
Ante-Natal Clinics ...	52
Ambulances ...	34
Area and Population ...	28
Artificial Sunlight ...	48, 55
Births ...	29
Blind, Welfare of the ...	66
Cancer ...	106
Centres, Welfare ...	53
Census, 1931 ...	28
Clatterbridge (County) Hospital ...	69
Deaths ...	29
Dental Treatment ...	52
Food and Drugs Acts ...	59
Health Visitors ...	8
Illegitimate Children ...	29
Infant Life Protection ...	51
Infantile Mortality ...	30
Infectious Diseases ...	31
Isolation Hospitals ...	32
Laboratory, County ...	44
Mary Dendy Homes ...	98
Maternity and Child Welfare ...	49
Maternity Hospitals ...	51
Maternal Mortality ..	51
Mental Deficiency ...	63
Midwives ...	13, 49
Milk (Special Designations) Order, 1936 ...	57
Ministry of Health Enquiries ...	110
Nursing Homes ...	50
Ophthalmia Neonatorum ...	50
Orthopaedic Scheme ..	55
Poor Law Medical Officers ...	15
Population ...	28
Public Assistance Institutions ..	105
Puerperal Fever and Pyrexia ...	50
Sewerage and Sewage Disposal ...	109
Statistics, Tables of ...	111
Still-births ...	29
Staff of Public Health Department ...	4
Tuberculosis ...	38
Vaccination Officers ...	22
Vaccinators, Public ...	15
Venereal Diseases ...	36
Water Supply ...	109
West Park (County) Hospital, Macclesfield ...	85
Wrenbury Hall ...	104
Zymotic Deaths ...	29

INTRODUCTION

*To the Chairman and Members of the Public Health
Committee of the Cheshire County Council.*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present to you my first annual report on the health and sanitary circumstances of the Administrative County, dealing with the year 1946.

After 15½ years as County Medical Officer of Health, Dr. Mackay felt it necessary to resign for health reasons. I served as his Deputy for six years and acknowledge the great debt I owe to him for his unfailing help and consideration during that period. The many qualities which gained him the respect and affection of all members of the Department also made it most difficult to follow him as County Medical Officer, and I wish to express my personal appreciation both of his work as Head of the Department, and of the unremitting kindness he showed to me on all occasions.

It is with the utmost regret that I also have to record the death on the 8th September of Dr. Mary Thomas, Assistant School Medical Officer. She was exceedingly popular with children, parents and teachers and enjoyed their confidence to a very high degree.

The vital statistics for the year show a new low record in infantile mortality (38.6 per 1,000 live births), and in new cases of tuberculosis notified (510). The great increase in the number of Tuberculin Tested herds of cattle will also be noted with satisfaction.

On account of the increasing number of patients referred to the Tuberculosis Officers for advice, it was found necessary to appoint an additional Tuberculosis Officer. This officer also attends the County Venereal Diseases Treatment Centres, where the amount of work done had become too heavy for the part-time County Venereologist.

The County Council's arrangements for the treatment of cancer under the Cancer Act, 1939, have now come into force, and afford ready means for County residents suffering from cancer to avail themselves of the best possible forms of advice and treatment.

The National Health Service Act, 1946, lays upon the County Council the duty of providing certain services for which they have not hitherto been responsible, such as Health Centres, Domiciliary Sick Nursing, Ambulances, and Diphtheria Immunisation, but removes the Council's functions in respect of General Hospitals, Maternity Homes, Mental Deficiency Institutions, Tuberculosis Sanatoria and Dispensaries, and Venereal Diseases treatment schemes. It seems a great pity that services which the County Council have raised to such a high degree of excellence, and which work so well, should pass in this way outside county control, particularly since a transitional period is bound to occur with all its necessarily attendant administrative difficulties. It is to be hoped that Cheshire residents will in no way suffer from the transference. Some County District functions will pass to the County Council, and a scheme of Divisional Administration is being considered which will endeavour to retain the interest of County District Councils in these activities.

Very slow progress was made in 1946 towards the completion of the Council's Maternity Homes Scheme. The necessity of obtaining Governmental approval for all details of Schemes, the difficulty in securing permits for materials, and the general shortage of both materials and labour have resulted in The Cliffe at Wybunbury not being available for patients until August, 1947. Nevertheless it will be noted that no fewer than 2,647 mothers have been confined under the Council's Maternity Scheme and in the Council's Hospitals. The demand continues to be high, and it is expected that this number will be increased in 1947.

Additional Child Welfare centres have been opened at Barnton, Davenham, Greasby, Hartford, Over Peover, Lower Peover, Moulton, and Shavington.

I wish to thank the members of the County Council for the support and help which they have afforded to me during the year. My thanks are also due to the Clerk of the County Council, the heads of Departments and their Staffs for their co-operation, and I acknowledge with gratitude the work done and the loyalty shown by all members of the Public Health Department.

I beg to remain,

Your obedient servant,

ARNOLD BROWN, M.B., Ch.B., D.P.H.,
County Medical Officer.

1st October, 1947.

Staff of the Public Health Department

County Medical Officer of Health and Chief School Medical Officer.	... Arnold Brown, M.B., Ch.B., D.P.H.
Deputy County Medical Officer of Health	... Cyril Bainbridge O.B.E., M.B., B.S., B.Hy., D.P.H.
Lady Assistant Medical Officer	... Bertha Butters, M.B., Ch.B., D.P.H.
Assistant School Medical Officers	... P. X. Bermingham, M.B., Ch.B., D.P.H. R. Cargill, M.B., Ch.B. R. J. Clark, M.B., Ch.B., D.P.H. Jennie D. Craig, M.B., Ch.B., D.P.H. J. S. B. Forde, M.R.C.S., L.R.C.P. Edith McKnight, M.B., Ch.B., D.P.H. Jessie M. R. Tough, M.B., Ch.B., D.P.H. Gladys E. Wilkinson, M.R.C.S., L.R.C.P.
District Tuberculosis Officers	... A. Fleming, M.B., Ch.B., D.P.H. J. F. Cotter, L.R.C.P.I., L.R.C.S.I. ... F. A. Paul, L.R.C.P., L.R.C.S., D.P.H. E. Smith, M.D., D.P.H. D. W. Tough, M.B., Ch.B., D.P.H.
County Analyst	... S. Ernest Melling, F.I.C.
Dental Surgeons	... H. R. Parry, L.D.S. (Senior). E. J. Bermingham, L.D.S. J. L. Dickson, L.D.S. Isabel M. Downie, L.D.S. H. Foulkes, L.D.S., R.C.S. (Eng.) J. M. Gibbons, L.D.S. A. F. Hely, L.D.S. C. Q. Hird, B.D.S. R. H. Hurst, L.D.S. H. Jackson, L.D.S. H. Lipkin, L.D.S. E. S. Poulter, L.D.S. Maggie Robinson, L.D.S. H. Schweitzer, Dr. Med. Dent. H. W. S. Sheasby, L.D.S. E. Johnson Taylor, L.D.S. J. Wilson, B.D.S.
Ophthalmic Surgeons (Part-time)	Eleanor Brock, M.B., D.O.M.S. S. H. Faulkner, M.D., M.R.C.P.I., D.O.M.S. W. Dunlop Hamilton, M.B., B.Ch., D.O.M.S.
Orthopaedic Surgeons (Part-time)	T. S. Harrison, M.R.C.S., L.R.C.P. C. Jacobs, M.D., M.B., B.S. G. T. Partridge, M.A., F.R.C.S. H. Platt, M.S., F.R.C.S. H. Poston, M.B., B.Ch., B.A.O. D. Wainwright, M.Ch. (Orth), F.R.C.S. J. K. Cameron, M.B., Ch.B., M.R.C.P. D. L. Griffiths, F.R.C.S. R. Roaf, M.A., F.R.C.S.

Venereologist (Part-time)	... A. W. Ritchie, M.B., Ch.B., D.P.H.
County Sanitary Officer	... F. Humphries.
Assistant County Sanitary Inspector	... A. H. Moseley, A.M.I.S.E.

CONSULTANTS FOR PUERPERAL CASES

- W. R. Addis, F.C.O.G., 2, St. John Street, Manchester 3.
(Tel. Blackfriars 0435)
6, Appleby Lodge, Wilmslow Road, Manchester 14.
(Tel. Rusholme 1907)
- C. Philip Brentnall, M.D., 14, St. John Street, Manchester 3.
(Tel. Blackfriars 9984)
"Riversdale," Mersey Road, Manchester 20.
(Tel. Didsbury 3762)
- M. M. Datnow, F.R.C.S., F.R.C.O.G., 38, Rodney Street, Liverpool 1.
(Tel. Royal 2090)
Oldcastle, Malpas.
(Tel. Malpas 77)
- Gordon Fitzgerald, M.D., Northern Assurance Buildings, Albert Square,
Manchester. (Tel. Blackfriars 6458)
Woodstock, Barlow Moor Road, Manchester 20.
(Tel. Didsbury 3350)
- E. A. Gerrard, M.D., 26, St. John Street, Manchester 3.
(Tel. Blackfriars 0079)
Hillbrow, West Didsbury, Manchester 18. (Tel. Didsbury 2681)
- T. Neville Hart, M.R.C.O.G., 66, Chorley New Road, Bolton.
(Tel. Bolton 1256)
- A. W. Holgate, F.R.C.S., 24, Curzon Park, Chester. (Tel. Chester 628)
- J. W. A. Hunter, M.D., 12, St. John Street, Manchester 3.
(Tel. Blackfriars 3287)
20, Rusholme Gardens, Whitworth Park, Manchester 4.
(Tel. Rusholme 2020)
- F. H. Lacey, M.D., 16, St. John Street, Manchester 3.
(Tel. Blackfriars 1500)
Thoresby, Ballbrook Avenue, Manchester 20.
(Tel. Didsbury 3092)
- Percy Malpas, F.R.C.S., 31, Rodney Street, Liverpool 1.
(Tel. Royal 8522)
Gateacre Hall, Liverpool. (Tel. Gateacre 1810)
- R. Newton, M.D., M.C.O.G., 11, St. John Street, Manchester 3.
(Tel. Blackfriars 2198)
Leeside, Wythenshawe Road, Sale. (Tel. Sale 4878)
- T. H. Richmond, F.R.C.S., 3, The Villas, London Road, Stoke-on
Trent. (Tel. Stoke-on-Trent 48341)
- C. E. B. Rickards, M.B., Ch.B., M.C.O.G., 14, St. John Street,
Manchester 3. (Tel. Blackfriars 4411)
"Lawnhurst," Wilmslow Road, Manchester 20.
(Tel. Didsbury 1812)
- A. Leyland Robinson, F.R.C.S., 63, Rodney Street, Liverpool 1.
(Tel. Royal 8061)
The Flaxyard, Little Neston. (Tel. Neston 420)
- W. E. C. Thomas, M.B., Ch.B., M.C.O.G., Bank House, Stalybridge.
(Tel. Stalybridge 2481)
- J. Gardiner Wigley, F.R.C.S., 2, Curzon Park, Chester.
(Tel. Chester 938)

CLATTERBRIDGE (COUNTY) GENERAL HOSPITAL

Medical Superintendent

D. Wilkie, M.D., F.R.C.S. Ed. & Eng.

Deputy Medical Superintendent

Susan Beatty, M.B., Ch.B., B.A.O.

Resident Medical Officers

A. H. Swithinbank, M.B., Ch.B.

G. Hughes, M.B., Ch.B.

C. M. Ogilvie, M.B., Ch.B.

(also 3 Assistant Medical Officers).

Consulting Staff

SURGEONS—J. Moroney, F.R.C.S. M. Silverstone, F.R.C.S.

GYNAECOLOGIST—Morris Datnow, M.D., F.R.C.S. Ed.

ORTHOPAEDIC SURGEON—G. T. Partridge, M.A., M.B., B.Ch.,
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PHYSICIANS—E. T. Baker-Bates, M.D., M.R.C.P.;

R. R. Hughes, M.D., M.R.C.P.

EYE SURGEON—W. D. Hamilton, M.B., B.Ch., D.O.M.S.

EAR, NOSE & THROAT—P. Garson, F.R.C.S. Ed., D.L.O.

PATHOLOGIST—J. M. Ritchie, M.A., M.B., Ch.B., D.P.H.

TUBERCULOSIS OFFICER—D. W. Tough, M.B., Ch.B., D.P.H.

RADIOLOGIST—R. F. Innes, M.B., D.R.M.E.

ANAESTHETIST—John Halton, M.B., Ch.B.

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Deputy Matron ... Miss Osborne, S.R.N., S.C.M.

Clerk and Steward ... J. Collier, F.C.S.S.

Lady Almoner ... Mrs. D. Lucas

WEST PARK (COUNTY) GENERAL HOSPITAL. MACCLESFIELD

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E. W. Thomas, M.B., Ch.B., F.R.C.S.Ed.

Medical Officers

S. Cope, M.D., B.Ch., B.A.

W. Watson, M.B., Ch.B.

Consulting Staff

SURGEON—J. Grocott, F.R.C.S.

PHYSICIAN—R. Ellis, M.D., F.R.C.P.

GYNAECOLOGIST—C. E. B. Rirkards, M.D., M.R.C.O.G.

VENEREOLOGIST—A. W. Ritchie, M.B., Ch.B.

ORTHOPAEDIC SURGEON—D. Wainwright, M.Ch.Orth.,
F.R.C.S.Ed.

OPHTHALMIC SURGEON—T. S. Harrison, M.R.C.S., L.R.C.P.

AURAL SURGEON—L. D. Mercer, F.R.C.S.Ed.

RADIOLOGIST—J. Blair Hartley, M.B., B.S., D.M.R.E.

PHYSIO-THERAPIST—J. Cowan, M.B., Ch.B.

PSYCHIATRIST—P. M. Crowe, M.B., Ch.B., D.P.M.

PHYSICIAN FOR CHILDREN—T. N. Fisher, M.B., M.R.C.P.,
D.P.M.

ANAESTHETIST—W. Broadhurst, M.B., Ch.B.

PATHOLOGIST—H. Stafford, M.B., Ch.B., D.P.M.

DERMATOLOGIST—W. Dyson, M.D.

DENTIST—G. Phillips

Nursing Staff

Matron—Miss Esther Jones, S.R.N., R.F.N., S.C.M.

Deputy Matron—Miss Mary Condon, S.R.N., S.C.M.

Sister Tutor and Home Sister—

Administrative Staff

Clerk and Steward—G. P. Siggins, A.H.A.

Lady Almoner—Miss L. M. Reddish

MARY DENDY HOMES, ALDERLEY EDGE

Medical Superintendent

G. R. Pile, M.B., Ch.B.

Clerk and Steward

Miss A. Olive

WRENBURY HALL, NANTWICH

Medical Superintendent

Peter W. Edwards, M.B., Ch.B.

Medical Officer

N. Patterson, M.B., Ch.B.

Matron

Miss C. A. Barton, S.R.N.

HEALTH VISITORS (55)

For districts in italics, M & C.W. work is not done; for districts in small capitals, M. & C.W. and School Medical work is not done; for districts in italic capitals, School Medical work is not done.

	CIVIL PARISHES	CENTRES, CLINICS & DISPENSARIES
DISTRICT No. 1a. Elizabeth Owen, 8, Market Street, Hoylake	Hoylake-cum-West Kirby (North & Central Wards)	Welfare Centre, 8, Market Street, Hoylake <i>Thurs. p.m.</i> (Tel. Hoylake 2322) School Clinic, 8, Market Street, Hoylake <i>Mon.—Fri. a.m.</i>
DISTRICT No. 1b. D. Christian 85, Woodchurch Road, Birkenhead	Grange Hoylake-cum-West Kirby (Park & South Wards)	Welfare Centre, 8, Market Street, Hoylake <i>Thurs. p.m.</i> (Tel. Hoylake 2322)
DISTRICT No. 2a C. Turcan, 4, Alpha Drive, Rock Ferry, Birkenhead (Tel. Rock Ferry 1179)	<i>Bebington-cum-Bromborough</i> <i>Brimstage</i> <i>Capenhurst</i> <i>Eastham</i> <i>Ledsham</i> <i>Poulton-cum-Spital</i>	Puddington <i>Raby</i> <i>Shotwick</i> <i>Storeton</i> <i>Thornton Hough</i> <i>Woodbank</i> School Clinic, St. Mark's Parish Room, New Ferry <i>Mon., Wed., Thurs., Fri. p.m.</i> Tub. Disp., 42, Hamilton Square, Birkenhead <i>Tues. & Fri. p.m.</i> (Tel. Birkenhead 3080)
DISTRICT No. 2b M. James, 17, Banks Road, West Kirby, Wirral	Burton Ness	Neston-cum-Parkgate Willaston Welfare Centre, Wesleyan Sunday School, <i>Thurs. p.m.</i> Neston School Clinic, Wesleyan Sunday School, <i>Wed. a.m.</i> Neston Welfare Centre, Red Cross Depot, Willaston <i>1st & 3rd Fri. p.m.</i>
DISTRICT No. 2c E. G. Sinden, Flat 5, Gayton Grange, Well Lane, Heswall	Caldy Frankby Greasby	Irby Pensby Thurstaston Welfare Centre, Village Hall, Irby <i>Alt. Mon. p.m.</i> Welfare Centre, Methodist Church Hall, <i>Alt. Tues. p.m.</i> Greasby
DISTRICT No. 2d. M. Okill, 241, Pensby Road, Heswall	Barnston Gayton Heswall-cum-Oldfield	Welfare Centre, Wesleyan Sunday School, <i>Alt. Mon. p.m.</i> Heswall School Clinic, Wesleyan Sunday School, <i>Tues. p.m.</i> Heswall
DISTRICT No. 3a A. Breakwell, 17, Lincoln Drive, Hoole, Chester.	<i>Childer Thornton Ince</i> <i>Ellesmere Port</i> <i>Elton</i> <i>Gt. Stanney</i> <i>Gt. Sutton</i> <i>Hooton</i>	School Clinic, York Road, Ellesmere Port <i>Mon.—Fri. a.m. (v. No. 3b)</i> (Tel. E. Port 328)
DISTRICT No. 3b M. A. Smith, 69, Bouverie Street, Chester (Tel. Chester 2716)	Aldford Buerton Chester Castle Churton Heath Claverton Doddleston Eaton Eccleston	Huntington Kinnerton Lea Newbold Marlston Poulton Pulford Rowton Saighton School Clinic, York Road, Ellesmere Port <i>Mon.—Fri. a.m. (v. No. 3a)</i> (Tel. E. Port 328)
DISTRICT No. 4a H. Marston, 23, Glan Aber Park, Chester (Tel. Chester 3052)	Christleton Great Boughton	Hoole U.D. Hoole Village Littleton Welfare Centre, 55, Hoole Road, Chester <i>Tues. p.m., 1st Thurs. p.m.</i> School Clinic, 55, Hoole Road, Chester <i>Mon.—Fri. a.m.</i> Ante-Natal Clinic, 55, Hoole Road, Chester <i>2nd Thurs. p.m.</i>
DISTRICT No. 4b E. Greene, Greysfield, 50a, Liverpool Road, Chester (Tel. Chester 1439)	Bache Backford Barrow Bridge Trafford Caughall Chorlton-by-Backford Croughton Dunham-on-the-Hill Guilden Sutton Hapsford	Lea-by-Backford Mickle Trafford Mollington Moston Picton Saughall Shotwick Park Upton Wervin Wimbolds Trafford Welfare Centre, Village Hall, Upton <i>Thurs. p.m.</i> Welfare Centre, Vernon Institute, Saughall <i>1st, 3rd & 5th Mon. p.m.</i>

	CIVIL PARISHES	CENTRES, CLINICS & DISPENSARIES
DISTRICT No. 5 M. Gourlay, 5, Sandown Terrace, Chester (Tel. Chester 1094)	Ashton Beeston Bruen Stapleford Burton-by-Tarvin Clotton Hoofield Cotton Abbotts Cotton Edmunds Delamere Duddon Eaton Foulk Stapleford Hatton Hockenhull	Horton-cum-Peel Huxley Iddinshall Kelsall Mouldsworth Pryor's Heys Tarporely Tarvin Tilstone Fearnall Tiverton Utkinton Waverton Willington
DISTRICT No. 6 D. Toft, The Oaks Lodge, Upton, Chester (Tel. Chester 2422)	Carden Chidlow Chorlton Chowley Church Shocklach Churton-by-Alf'd Ch'rton-by-F'don Clutton Coddington Crewe Cuddington Duckington Edge Edgerley Egerton Farndon	Golborne Bellow Golborne David Grafton Hampton Handley Harthill Horton Kings Marsh Larkton Maccles Malpas Newton-by- Malpas Newton-by- Tattenhall Oldcastle
Agden Aldersey Barton Bickerton Bickley Bradley Broxton Burwardsley Caldecott		Welfare Centre, Jubilee Hall, Malpas <i>Alt. Mon. p.m.</i> School Clinic, Jubilee Hall, Malpas <i>Thurs. p.m.</i> Tub. Disp., 2, King's Buildings, Chester <i>Wed. a.m.</i> (Tel. Chester 2874) School Clinic, School House, Tattenhall <i>Tues. p.m.</i> Overton Threapwood Shocklach Oviatt Tilston-by-Malpas Stockton Tushingham Stretton Wigland Tattenhall Wychough
DISTRICT No. 7a H. K. Coventry, 11, Weston Crescent, Runcorn E. Riley, 17, Cornwall Avenue, Runcorn M. Hopkins, 27, Halgate Road, Widnes.	Runcorn U.D. (Mersy and Halton Wards) Runcorn U.D. (Weston and Heath Wards) Runcorn U.D. (Bridgewater, Central and Newtown Wards)	Welfare Centre, 29, High Street, Runcorn <i>Wed. a.m. and p.m.</i> (Tel. Runcorn 2449) School Clinic, 29, High Street, Runcorn <i>Tues. a.m.</i> <i>Mon., Thurs. p.m., Fri. e.m., and p.m.</i> Ante-Natal Clinic, 29, High Street, Runcorn <i>Thurs. a.m.</i>
DISTRICT No. 7b S. E. Robinson, 23, Weston Crescent, Runcorn	Aston Daresbury Dutton Halton	Hatton Moore Norton Preston Brook
		See District No. 7a Sutton Whitley Walton
DISTRICT No. 8. B. Bird, The Bungalow, Chester Road, Sutton Weaver, Warrington	Alvanley Frodsham Helsby	Kingsley Manley Norley
	Welfare Centre, Cable Works, <i>Alt. Tues. p.m.</i> Helsby	School Clinic, Trinity Church House, <i>Thurs. p.m.</i> Frodsham Tuberculosis Disp., Mem. Hosp., Runcorn <i>Fri. a.m. and p.m.</i> (Tel. Runcorn 2046) Welfare Centre, Trinity Church House, <i>Alt. Tues. p.m.</i> Frodsham
DISTRICT No. 9 W. Kidd, Parkfield, Middlewich Road, Northwich (Tel. Northwich 2186)	Acton Anderton Barnton Comberbach Crowton	Great Budworth Little Leigh Marbury Marston Weaverham
		Welfare Centre, Parish Hall, Weaverham <i>Alt. Tues. p.m.</i> Welfare Centre, Parkfield, Middlewich Road, <i>Thurs. p.m.</i> Northwich School Clinic, C.E. School, Barnton <i>Wed. a.m.</i> Welfare Centre, Meth. Church, Barnton <i>2nd & 4th Wed.</i> School Clinic, Council School, Weaverham <i>Tues. and Fri. a.m.</i>
DISTRICT No. 10 E. Middlehurst, Parkfield, Middlewich Road, Northwich (Tel. Northwich 2186)	Allstock Aston-by-Bud'th Bexton Goostrey Knutsford U.D. Lostock Gralam Mere Nether Peover Ollerton	Peover Inferior Peover Superior Pickmere Plumley Tabley Inferior Tabley Superior Toft Twemlow Wincham
		School Clinic, Mission Hall, Adams Hill, <i>Wed. a.m.</i> Knutsford Tub. Disp., Physio-Therapy Clinic Northwich <i>Tues. pm.</i> (Tel. Northwich 4332) Welfare Centre, Parkfield, Middlewich Road, <i>Thurs. p.m.</i> Northwich Welfare Centre, The Institute, Lower Peover <i>2nd & 4th Mon. p.m.</i> Welfare Centre, Parish Room, Over Peover <i>1st & 3rd Mon. p.m.</i>

	CIVIL PARISHES		CENTRES, CLINICS & DISPENSARIES			
DISTRICT No. 11 G. J. Dawson, Darland House, Northwich L. Scully, Darland House, Northwich	Northwich U.D. (Witton and Northwich Wards)		Welfare Centre, Darland House, Northwich <i>Tues. p.m.</i> Ante-Natal Clinic, Parkfield, Northwich <i>2nd & 4th Mon. p.m.</i>			
	Northwich U.D. (Castle and Winnington Wards)		School Clinic, Darland House, Northwich <i>Tues. & Fri. a.m.</i> (Tel. North 4643)			
DISTRICT No. 12 M. Bird, Parkfield, Middlewich Road, Northwich	Cuddington Davenham Hartford Lach Dennis	Rudheath Whareroft	School Clinic, Parkfield, Middlewich Road, <i>Mon., Tues., Wed., Fri. a.m.</i> Northwich Welfare Centre, Parkfield, Middlewich Road, <i>Thurs. p.m.</i> Northwich Welfare Centre, Meth. Church, Davenham <i>1st Mon., p.m.</i> Welfare Centre, Meth. Chapel, Hartford <i>2nd & 4th Tues. p.m.</i>			
DISTRICT No. 13a G. W. Johnson, Highfield, Swanlow Lane, Winsford	Winsford U.D. (Vale Royal & Wharton Wards)		Welfare Centre, 98, Weaver Street, Winsford <i>Fri. p.m.</i> (Tel. Winsford 2387) Welfare Centre, Church Hall, Moulton <i>3rd Wed. p.m.</i>			
	Winsford U.D. (Gravel, Over & Swanlow Wards)		Welfare Centre, 98, Weaver Street, Winsford <i>Fri. p.m.</i> (Tel. Winsford 2387) School Clinic, 98, Weaver Street, Winsford <i>Mon. & Wed. p.m. Fri. a.m.</i>			
DISTRICT No. 13b J. M. Jewell, Field View, Rilshaw Lane, Winsford	Winsford U.D. (Gravel, Over & Swanlow Wards)		Welfare Centre, 98, Weaver Street, Winsford <i>Fri. p.m.</i> (Tel. Winsford 2387) School Clinic, 98, Weaver Street, Winsford <i>Mon. & Wed. p.m. Fri. a.m.</i>			
DISTRICT No. 14 M. E. Fox The Priory, Middlewich	Middlewich U.D. Bostock Byley Church Hulme	Cranage Sproston Stanthorne Wimboldsley	Welfare Centre, The Priory, Middlewich <i>Mon. p.m.</i> (Tel. Middlewich 165) School Clinic, The Priory, Middlewich <i>Mon. a.m., Wed. and Fri. p.m.</i>			
DISTRICT No. 15 C. Hopwood, The Dowery, Barker Street, Nantwich	Nantwich U.D. Aston Cholmondeston Church Minshull Henhull	Leighton Minshull Vernon Poole Wettenhall Woolstanwood Worleston	Welfare Centre, The Dowery, Nantwich <i>Thurs. p.m.</i> (Tel. Nantwich 5360) School Clinic, The Dowery, Nantwich <i>Mon.—Fri. a.m.</i>			
DISTRICT No. 16a	Aeton Alpraham Austerson Baddiley Baddington Batherton Brindley	Broomhall Bulkeley Bunbury Burland Calvey Cholmondeley Chorley	Coole Pilate Edleston Faddiley Haughton Hurleston Marbury Norbury	Peckforton Ridley Sound Spurstow Stapeley Stoke Wardle	Willaston Wirswall Woodcote Wrenbury	
DISTRICT No. 16b E. Hayes, Brook House, Green Lane, Audlem, Crewe	Audlem Basford Blakenhall Bridgemere Buerdon Cheekley c. W. Chorlton Dodeott c.	Doddington Hankelow Hatherton Hough Hunston Lea Newall Rope	Welfare Centre, Wesleyan Chapel, Audlem <i>1st and 3rd Tues. p.m.</i> Welfare Centre, Church Hall, Shavington <i>2nd and 4th Tues.</i> Shavington Walgherton			
	Weston Wybunbury					
DISTRICT No. 17a P. Pereival, 3, Newton Terrace, St. Anne's Road, Middlewich	Alsager U.D. Barthomley Church Lawton	Crewe (Rural) Haslington Odd Rode	Welfare Centre, Wesleyan Sunday School, <i>Alt. Tues. p.m.</i> Alsager School Clinic, 15, Centre Court, Alsager <i>Wed. a.m. Fri. p.m.</i> Welfare Centre, Yoxall Institute, Haslington <i>Alt. Tues. p.m.</i> Welfare Centre, Parish Hall, Odd Rode, <i>2nd & 4th Wed. p.m.</i> Welfare Centre, Methodist Sunday School, <i>1st & 3rd Wed. p.m.</i> Mow Cop			
	Welfare Centre, The Institute, Rode Heath <i>1st & 3rd Mon. p.m.</i>					
DISTRICT No. 17b R. Walsh, Clifford House, Park Road, Willaston, Nantwich	CREWE M.B. Warmingham	Wistaston	Tuberculosis Dispensary, Memorial Hospital, <i>Mon. a.m. and p.m.</i> Crewe <i>Thurs. a.m.</i> (Tel. Crewe 2525)			
DISTRICT No. 18a. F. L. Govan, 29, Eagle Brow, Lymm, Warrington	Antrobus Appleton	Grappenhall Stretton	Welfare Centre, Methodist Sunday School, <i>Tues. p.m.</i> Grappenhall			

	CIVIL PARISHES	CENTRES, CLINICS & DISPENSARIES
DISTRICT No. 18b M. Evans, 56, Birchfield Road, Widnes, Lancs.	Stockton Heath	Welfare Centre, Parish Hall, Stockton Heath <i>Alt. Mon. p.m.</i>
DISTRICT No. 19 D. E. Lowey, 29 Eagle Brow, Lymm, Warrington (Tel. Lymm 277)	Lymm U.D. Carrington High Legh	Partington Warburton Welfare Centre, 29, Eagle Brow, Lymm <i>Tue. p.m.</i> Welfare Centre, St. Mary's Institute, <i>Alt. Thurs. p.m.</i> Partington School Clinic, 29, Eagle Brow, Lymm <i>Mon.—Fri. a.m., 1st & 3rd Wed. p.m.</i>
DISTRICT No. 20 M. Ross, 70, Chapel Road, Sale H. Wingfield, 70, Chapel Road, Sale W. Heron, 53, Hawthorn Road, Manchester 21 B. Cunliffe, 76, Harboro' Road, Sale	Sale M.B. (St. Martin's & Mersey Wards) Sale M.B. (St. Anne's & Sale Moor Wards) Sale M.B. (St. Paul's & St. John's Wards) Sale M.B. (St. Mary's & Brooklands Wards)	Welfare Centre, 70, Chapel Road, Sale <i>Tues. and Thurs. p.m., 2nd Wed. p.m.</i> School Clinic, 70, Chapel Road, Sale <i>Mon.—Fri. a.m.</i> (Tel. Sale 1329) Ante & Post Natal Clinic, 70, Chapel Road, <i>1st, 3rd and 4th Wed. p.m.</i> Sale Orthopaedic Clinic, 70, Chapel Rd., Sale <i>Mon. and Thurs. a.m., Fri. p.m.</i>
DISTRICT No. 21a E. Edwards, 34 Avon Road, Hale, Altrincham	Bowdon U.D. Hale U.D. Ashley	Ringway Rostherne Tatton Welfare Centre, Methodist Schoolroom, <i>Alt. Thurs. p.m.</i> Bowdon School Clinic, 1, Hawthorn Road, Hale <i>Mon., Wed., Fri. p.m.</i> Tuberculosis Dispensary, General Hospital, <i>Mon. 6 p.m., Wed. Fri. a.m.</i> Altrincham
DISTRICT No. 21b L. E. H. Tripp, Sampford Brett, Wainwright Rd., Altrincham (Tel. Altrincham 1884)	Altrincham M.B. Agden Bollington	Dunham Massey Millington School Clinic, 12, The Mount, Altrincham <i>Mon., Tues., Fri. a.m.</i> School Clinic, 121, Park Road, Timperley <i>Wed. a.m.</i> Tuberculosis Dispensary, General Hospital, <i>Fri. p.m.</i> (Tel. Alt. 2678) Altrincham
DISTRICT No. 22a M. Bell, Alma House, Altrincham Road, Wilmslow Manchester (Tel. Wilmslow 2635)	Alderley Edge U.D. Wilmslow U.D. (Hough Ward)	Chorley Great Warford Marshall Mobberley Welfare Centre, Alma House, Wilmslow <i>Thurs. p.m.</i> (v. No. 22c) Welfare Centre, Victory Hall, Mobberley <i>Alt. Tues. p.m.</i> Welfare Centre, Church Institute, Alderley <i>Fri. p.m.</i> Edge School Clinic, Alma House, Wilmslow <i>Tues., Thurs., Sat. a.m.</i>
DISTRICT No. 22b B. E. Crosby, 27, Earle Road, Bramhall	Wilmslow U.D. (Styal and Handforth Wards) Hazel Grove and Bramhall U.D. (Woodford and Bramhall Wards)	Welfare Centre, Methodist Sunday School, <i>1st & 3rd Mon. p.m.</i> Bramhall Welfare Centre, Conserv. Women's Club, <i>2nd and 4th Mon. p.m.</i> Handforth
DISTRICT No. 22c D. M. Bowers, 1, Albany Road, Wilmslow	Wilmslow U.D. (Dean Row, Fulshaw and Morley Wards)	Welfare Centre, Alma House, Wilmslow <i>Thurs. p.m.</i> (v. No. 22a)
DISTRICT No. 23 M. Spencer, 2, Elm Drive, Macclesfield	MACCLESFIELD M.B. Bosley Chelford Eaton Gawsworth Henbury Hulme Walfeld Marton	Mottram-St.- Andrew North Rode Nether Alderley Over Alderley Prestbury Siddington Snelson Tub. Disp., Gen. Infirmary, Macclesfield <i>Mon. & Thurs. p.m.</i> (Tel. M'field 3601) Somerford Somerford Booths Swettenham Withington
DISTRICT No. 24 L. Jacks, 19, George Street, Elworth, Sandbach	Sandbach U.D. Arclid Betchton Bradwall	Brereton Elton Hassall Smallwood Tetton Welfare Centre, Marriott House, Sandbach <i>Tues. p.m.</i> School Clinic, Marriott House, Sandbach <i>Wed. and Fri. p.m.</i>
DISTRICT No. 25 G. F. Finger, 12, West Street, Congleton (Tel. Congleton 169)	CONGLETON M.B. Moreton-cum-Alcumlow Newbold Astbury	Welfare Centre, 12, West Street, Congleton <i>Mon. p.m.</i> Tuberculosis Dispensary, Mcm. Hospital, <i>Fri. p.m.</i> Congleton Ante & Post Natal Clinic, 12, West Street, Congleton <i>2nd & 4th Thurs., 1st Tues. p.m.</i>

	CIVIL PARISHES	CENTRES, CLINICS & DISPENSARIES
DISTRICT No. 26a M. B. Batty, 14, Parrswood Court, Manchester 20	Cheadle and Gatley U.D. (Cheadle Hulme Wards)	School Clinic, All Saints' Parish Room, <i>Wed., Fri. p.m.</i> Cheadle Hulme Welfare Centre, Mission Hall, Cheadle Hulme <i>Alt. Tues. p.m.</i> Welfare Centre, Mission Hall, Adswold <i>1st & 3rd Mon. p.m.</i>
DISTRICT No. 26b E. Hardy, 4, Bird Hall Avenue, Cheadle Hulme, Stockport	Cheadle and Gatley U.D. (Cheadle Ward)	School Clinic, Council School, Cheadle <i>Mon., Wed. and Fri. a.m.</i> Welfare Centre, Congregational Church Room, <i>Tues. p.m.</i> Cheadle
DISTRICT No. 26c N. Heenan, 146, Edgeley Road, Cheadle Heath, Stockport	Cheadle and Gatley U.D. (Gatley & Heald Green Wards)	Welfare Centre, Methodist Church, Heald <i>1st & 3rd Thurs. p.m.</i> Green Ante-Natal Clinic, Congregational Church <i>Tues. a.m.</i> Room, Cheadle
DISTRICT No. 27. G. M. Bullough, 6, Seymour Road, Mile End, Stockport (Tel. Stock. 4378)	Hazel Grove and Bramhall U.D. (North & East Wards)	Welfare Centre, 253, London Road, Hazel <i>Thurs. p.m.</i> Grove School Clinic, 253, London Road, Hazel Grove <i>Tues. a.m., Fri. p.m.</i> Ante-Natal Clinic, 253, London Road, Hazel <i>Tues. p.m.</i> Grove Tuberculous Dispensary, Beeley Street, Hyde <i>Wed., 2 & 6 p.m.</i> (Tel. Hyde 537)
DISTRICT No. 28 F. G. Brentnall, Five Ashes, Kerridge, Macclesfield	Bollington U.D. Macclesfield F'est Adlington Poynton Hurdshfield Rainow Kettleshulme Sutton Lyme Handley Wildboarclough Pott Shrigley Wincle	Welfare Centre, Wellington Road, Bollington <i>1st & 3rd Wed., alt. Thurs. p.m.</i> School Clinic, Wellington Road, Bollington <i>Tues. a.m.</i> Welfare Centre, Methodist Sunday School, <i>Alt. Thurs. p.m.</i> Poynton School Clinic, Primary School, Poynton <i>Tues. p.m.</i> Welfare Centre, Lane Ends Club, Sutton <i>2nd & 4th Wed. p.m.</i>
DISTRICT No. 29a S. Morris, 115, George Lane, Bredbury, Stockport	Bredbury and Romiley U.D. (Bredbury Ward)	Welfare Centre, Congregational Sunday <i>Tues. a.m. and p.m.</i> School, Bredbury School Clinic, Cong. Sunday School, Bredbury <i>Fri. a.m.</i> Tuberculous Dispensary, Beeley Street, Hyde <i>Mon. a.m.</i> (Tel. Hyde 537)
DISTRICT No. 29b M. Wilkinson, 5, Portland Place, Mottram Road, Stalybridge	Bredbury and Romiley U.D. (Romiley and Compstall Wards) STALYBRIDGE M.B.	Welfare Centre, Leyfield Avenue, Romiley <i>Thurs. p.m.</i> School Clinic, Leyfield Avenue, Romiley <i>Mon. p.m. and Wed. p.m.</i> Tuberculous Dispensary, Gt. Egerton Street, <i>Mon. a.m. & p.m.</i> Stockport
DISTRICT No. 30 E. Ollerenshaw, 159, Talbot Road, Hyde (Tel. Hyde 806)	DUKINFIELD M.B.	Welfare Centre, 212 Astley Street, Dukinfield <i>Wed. and Thurs. a.m. and p.m.</i> (Tel. Ashton 1689)
DISTRICT No. 31 F. Spencer, 10, Allan Avenue, Hyde	HYDE M.B. Longdendale U.D. Tintwistle R.D.	Welfare Centre, St. Mary's Sunday School, <i>Alt. Thurs. p.m.</i> Hollingworth School Clinic, Council School, Hollingworth <i>Tues. a.m.</i>
DISTRICT No. 32a S. Dickson, Bute House, Marple Bridge, Stockport (Tel. Marple 177)	Marple U.D. (Ludworth, Mellor & North Wards)	School Clinic, Methodist Sunday School, <i>Wed. a.m.</i> Marple Welfare Centre, Methodist Sunday School, <i>2nd & 4th Thurs. p.m.</i> Marple Bridge Welfare Centre, Methodist Church, Mellor <i>1st & 3rd Thurs. p.m.</i>
DISTRICT No. 32b B. Brewster, Spout House Farm, Strines, Stockport	Marple U.D. (Cent. & South Wards) Disley R.D.	Welfare Centre, Methodist Sunday School, <i>Wed. p.m.</i> Marple Welfare Centre, Hartley House, High Lane <i>Alt. Tues. p.m.</i> Welfare Centre, Gleneil House, Disley <i>Alt. Tues. p.m.</i>

COUNTY MIDWIVES (67)

No.	Name	Address	Telephone
1	E. M. Lowe	Glentworth, Birkenhead Road, Hoylake	Hoylake 2526
2	E. Jemmett	58, Gresford Avenue, West Kirby	---
4	M. Boothroyd	20, Larchwood Drive, Woodhey, Bebington	Rock Ferry 2303
5	C. Wilkinson	---	---
6	M. Uytendhal	19, Bolton Road East, New Ferry	Rock Ferry 2301
7	M. E. Wright	Fernbank, 4, Bromborough Road, Bebington	Rock Ferry 40
8	R. Baines	Sunnymede, Liverpool Road, Neston	Neston 325
9	L. M. Bradshaw	Newlands, Berwick Gardens, Little Sutton	Hooton 2138
10	E. Butler	Mersey View, Pooltown Road, Whitby	E. Port 240
11	V. E. Corson	Dormy, Wilkinson Street, Ellesmere Port	E. Port 146
12	E. Evans,	85, Grace Road, Ellesmere Port	E. Port 1188
13	A. E. Williams	6, York Road, Ellesmere Port	E. Port 329
14	E. E. West	20, Halkyn Road, Chester	Chester 2274
15	E. McAllister	73, Green Lane, Chester	Christleton 37
16	I. B. Jones	18, Bache Avenue, Upton	Chester 1097
17	E. A. Cooke	13, Waterloo Road, Runcorn	Runcorn 2623
18	G. Minshall	20, Leinster Street, Runcorn	Runcorn 2798
19	P. Noon	---	---
20	B. Smith	34, Russell Road, Runcorn	Runcorn 2013
21	J. Elliott	3, Clarence Road, Grappenhall	Grappenhall 384
22	A. J. Carroll	1, Stetchworth Road, Walton, Stockton Heath	St'kton Heath 611
23	N. Jones	71, East Avenue, Rudheath, Northwich	Northwich 3020
23a	E. Sherratt	Cartmel, London Road, Northwich	Northwich 2771
24	A. Orne	95, Victoria Road, Northwich	Northwich 3025
25	M. Court	117, Delamere Street, Over, Winsford	Winsford 2311
26	A. E. Hough	Beaumont, St. Ann's Road, Middlewich	Middlewich 167
27	E. A. Bimson	20, Gatefield Street, Crewe	Crewe 2239
27a	S. A. McKenna	50, Derrington Avenue, Crewe	Crewe 3345
28	D. Broad	234, Hungerford Road, Crewe	Crewe 2495
28a	A. Rose	54, Derrington Avenue, Crewe	---
29	M. Cunningham	177, Holland Street, Crewe	---
29a	B. J. Blatter	59, Richard Street, Crewe	---
30	M. Beatty	50, Derrington Avenue, Crewe	Crewe 3345
31	E. G. Williams	282, Broad Street, Crewe	Crewe 2666
31a	M. Wilson	152, Holland Street, Crewe	Crewe 2875
33	E. Jones	12, Well Lane, Alsager	Alsager 223
34	M. Stoddart	24, Brook Road, Lymm	Lymm 581
37	H. Gilbody	192, Northenden Road, Sale Moor, Sale	Sale 4313
38	D. Lindley	65, Derbyshire Road South, Sale	Sale 4383
39	K. McSweeney	27, Glebelands Road, Sale	Sale 1842
40	A. Whittle	220, Manchester Rd., Broadheath, Altrincham	Altrincham 1484
41	S. Leigh	5, Poplar Avenue, Altrincham	Altrincham 0963
43	M. A. Fittes	Dunham Woodhouses, Dunham Massey	Altrincham 0056
44	L. Starkey	1, Baneroft Road, Hale	Ringway 4653
45	D. Harper	Cranford, Bradwall Road, Sandbach	Sandbach 273
46	A. A. Rowley	51, Swan Street, Congleton	Congleton 430
47	R. H. Frost	Brook Bank, Townsend Road, Congleton	Congleton 429
48	M. A. Lane	3, Vaudrey Creseent, Congleton	Congleton 442
49	C. Bayliss	48, St. David's Road, Cheadle	Gatley 3797
49a	E. M. Newman	10, Madison Avenue, Cheadle Hulme	Ch'le Hulme 1261
50	F. W. Hampson	335, London Road, Hazel Grove	Great Moor 3131
51	S. P. Faulkner	99, Hawthorn Street, Wilmslow	Wilmslow 2717
52	B. J. Whittaker	12, Garden City, Macclesfield	Macclesfield 3766
54	G. H. Robinson	249, Peter Street, Macclesfield	Macclesfield 3321
55	E. Fairclough	19, Nicholson Avenue, Macclesfield	Macclesfield 3322
56	D. Tomlinson	7, Clegg Street, Macclesfield	Macclesfield 2073

COUNTY MIDWIVES (contd.)

No.	Name	Address	Telephone
57	A. D. Hall	47, Taylor Street, Hollingworth —	Mottram 214
58	L. Purvey	184, Huddersfield Road, Stalybridge —	Stalybridge 2483
59	N. Robinson	6, Acres Lane, Stalybridge —	Stalybridge 2821
60	F. Dent	Plas-y-Garth, Wakefield Road, Stalybridge	Stalybridge 2281
62	A. Lees	90, Astley Street, Dukinfield —	Ashton 1073
63	A. E. Marten	218, Birch Lane, Dukinfield —	Stalybridge 2443
64	L. Kitchen	7, Elm Grove, Hyde —	Hyde 789
65	L. Sambrook	57, Woodfield Avenue, Hyde —	Hyde 786
66	K. A. Johnson	12, Shaw Hall Avenue, Hyde	Hyde 1160
66a	M. P. Schofield	Woodhaven, Woodend Lane, Hyde —	Hyde 739
—	M. Kilner (Relief)	c/o Hey, Hyde Brook, Mottram, Manchester	

COUNTY DENTAL NURSES (6)

D. Babington	211, Fog Lane, Didsbury, Levenshulme, Manchester.
D. Comyn	Spring Villa, Upton Park, Chester.
H. Howarth	700, Borough Road, Birkenhead
M. M. Ramsbottom	11, Cranleigh Drive, Cheadle.
G. Rees	46, George's Crescent, Grappenhall, Warrington.
E. Toft	Durlston, Grove Road, Mollington, Chester.

COUNTY DENTAL ATTENDANTS (12)

M. Aspden	27, Bramhall Park Road, Bramhall, Stockport.
J. Bartley	27, Tarvin Road, Chester.
D. Fellowes	30, Raby Drive, Moreton, Wirral.
E. Halligan	28, Nelson Street, Crewe
M. B. Jewison	42, Foxhall Road, Timperley.
A. Kealey	127, Moss Road, Winnington, Northwich.
H. C. Lovell	28, Hayling Road, Sale
D. Smith	59, Hoole Road, Chester.
E. M. Taylor	11, Beech Street, Middlewich.
M. Watkin	36, Pownall Street, Altrincham.
S. M. Yates	10, Kingsway, Davenport, Stockport.
M. Yoxall	West View, Coppice Road, Willaston, Nantwich.

Chief Administrative Assistant — — Vincent O'Connor.

Offices—24, Nicholas Street, Chester. Telephone Chester 2305 (2 lines).

PUBLIC VACCINATORS and POOR LAW MEDICAL OFFICERS.

No. 1 (BUCKLOW) AREA.

District No. 1 (Altrincham).

Altrincham M.B.	Bowdon U.D. Dunham Massey	Hale U.D.
Public Vaccinator—	} H. A. Logan, Manor House, Woodlands Road, Altrincham.	
Medical Officer—		

District No. 2 (Knutsford South).

Bexton	Marshall-cum- Warford	Ollerton
Peover Inferior		Peover Superior
Plumley	Toft	
Public Vaccinator—	} H. Bowring, Tithe House, Chelford Road, Knutsford.	
Medical Officer—		

District No. 3 (Knutsford North).

Knutsford U.D.	Agden	Aston-by-Budworth
Bollington	High Legh	Mere
Millington	Pickmere	Rostherne
Tabley Inferior	Tabley Superior	Tatton
Public Vaccinator—	} H. Bowring, Tithe House, Chelford Road, Knutsford.	
Medical Officer—		

District No. 4 (Lymm).

Lymm U.D.		
Public Vaccinator—	} W. J. H. Hughes, Danecliffe, Lymm.	
Medical Officer—		

District No. 5 (Sale).

Sale M.B.	Carrington Warburton	Partington
Public Vaccinator—	} J. J. Cruickshank, Lindenholve, Wardle Road, Sale.	
Medical Officer—		

District No. 6 (Wilmslow).

Alderley Edge U.D.	Wilmslow U.D.	Ashley
Mobberley	Ringway	
Public Vaccinator—	} A. Nowell, Handforth Lodge, Handforth.	
Medical Officer—		

No. 2 (MACCLESFIELD AND CONGLETON) AREA.

District No. 1 (Macclesfield).

Macclesfield M.B.		
Public Vaccinator—	} S. F. Clegg, Nuneham, Victoria Road, Macclesfield.	
Medical Officer—		

No. 2 (Macclesfield and Congleton) Area—*Continue J.***District No. 2 (Sutton and Rainow).**

Gawsworth	Hurdsfield	Kettleshulme
Macclesfield Forest	Rainow	Sutton
Wildboarclough	Wincle	

Public Vaccinator— } A. C. Gillies, 195, Park Lane, Macclesfield.
 Medical Officer— }

District No. 3 (Alderley).

Alderley Nether	Alderley Over	Chelford
Chorley	Henbury	Siddington
Snelson	Warford Great	Withington

Public Vaccinator— } E. S. Evans, Roadside, Chelford, Crewe.
 Medical Officer— }

District No. 4 (Bollington).

Bollington U.D.	Disley R.D.	Lyme Handley
Mottram St. Andrew	Pott Shrigley	Prestbury

Public Vaccinator— } G. Coope, The Waterhouse, Bollington, nr.
 Medical Officer— } Macclesfield.

District No. 5 (Eaton and Marton).

Bosley	Eaton	Marton
	North Rode	

Public Vaccinator— } R. B. Davidson, Damian House, Congleton.
 Medical Officer— }

District No. 6 (Poynton).

Adlington	Poynton-with-Worth	Woodford
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Public Vaccinator— } N. Cox, London Road, Poynton, nr. Stockport.
 Medical Officer— }

District No. 7 (Congleton).

Congleton M.B.	Hulme Walfield	Moreton-cum-
Newbold Astbury	Somerford	Alcumlow
	Somerford Booths	

Public Vaccinator } A. J. Pirie, Moody Hall, Congleton.
 Medical Officer }

District No. 8 (Sandbach).

Sandbach U.D.	Arclid	Betchton
Bradwall	Elton	Hassall
Smallwood	Tetton	

Public Vaccinator— } A. Henderson, West View, Sandbach.
 Medical Officer— }

District No. 9 (Alsager).

Alsager U.D.	Church Lawton	Odd Rode
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Public Vaccinator— A. Henderson, West View, Sandbach
 Medical Officer— G. Bates, Lawton Road, Alsager.

District No. 10 (Church Hulme).

Brereton	Church Hulme	Cranage
Goostrey	Swettenham	Twenlow

Public Vaccinator— } A. D. Picton, Saddler's Close, Holmes Chapel.
 Medical Officer— }

No. 3 (NANTWICH) AREA.**District No. 1 (Audlem).**

Audlem	Buerton	Coole Pilate
Dodcot-cum-	Hankelow	Newhall (Part of *)
Wilkesley (Part of *)		

Public Vaccinator— } G. C. Thornton, Beech House, Audlem, Crewe
 Medical Officer— }

District No. 2 (Bunbury).

Alpraham	Bickerton	Bulkeley
Bunbury	Calveley	Egerton
Haughton	Peckforton	Ridley
Spurstow	Wardle	Wettenhall

Public Vaccinator— } M. M. F. Arthur, Birchfield, Bunbury
 Medical Officer— }

District No. 3 (Crewe North).

Crewe M.B. (North †)	Leighton	Minshull Vernon
Warmingham	Woolstanwood	

Public Vaccinator— } M. Parkes, Helmsville, Crewe.
 Medical Officer— }

District No. 4 (Crewe South).

Crewe M.B. (South †)	Rope	Shavington-cum-
Wistaston		Gresty

Public Vaccinator— } W. G. Murray, 144, Nantwich Road, Crewe.
 Medical Officer— }

District No. 5 (Haslington).

Barthomley	Basford	Crewe Rural
Haslington	Weston	

Public Vaccinator— } D. J. Walker, High Street, Haslington, Crewe.
 Medical Officer— }

District No. 6 (Nantwich).

Nantwich U.D.	Acton	Aston-juxta-Mondrum
Baddington	Batherton	Brindley
Burland	Cholmondeston	Church Minshull
Edleston	Faddiley	Henhull
Hurleston	Poole	Stoke
Willaston	Worleston	

Public Vaccinator— } S. Johnstone, Kiltearn House, Nantwich.
 Medical Officer— }

* Such part of these Parishes as lies East of a line formed by the Barnett Brook from the County boundary to its junction with the River Weaver, and thence by the River Weaver to the boundary of the Parish of Broomhall.

† Such part of Crewe M.B. as lies North of a line formed by West Street, Hightown, Victoria Street, Market Street, Earl Street, Hungerford Road.

‡ Such part of Crewe M.B. as lies South of the line defined in note † above.

No 3 (Nantwich) Area—Continued.**District No. 7 (Wrenbury).**

Baddiley	Broomhall	Cholmondeley
Chorley	Dodcot-cum-	Marbury-cum-
Newhall (Part *)	Wilkesley (Part *)	Quoisley
Norbury	Sound	Wirswall
Woodcott	Wrenbury-cum-Frith	
Public Vaccinator—	} N. Patterson, Stanley House, Wrenbury.	
Medical Officer—		

District No. 8 (Wybunbury).

Austerson	Blakenhall	Bridgemere
Checkley-cum-	Chorlton	Doddington
Wrinehill	Hatherton	Hough
Hunsterson	Lea	Stapeley
Walgherton	Wybunbury	
Public Vaccinator—	} O. H. Blacklay, 148, Hospital Street, Nantwich.	
Medical Officer—		

No. 4 (NORTHWICH AND RUNCORN) AREA.**District No. 1 (Northwich No. 1).**

Northwich U.D.	Lostock Gralam	Marbury
(Witton & Northwich Wards)		
Marston	Wincham	
Public Vaccinator—	} J. B. Fulton, 162, Witton Street, Northwich	
Medical Officer—		

District No. 2 (Northwich No. 2).

Northwich U.D.	Anderton	Barnton
(Castle & Winnington Wards)		
Comberbach	Hartford	
Public Vaccinator—	} J. W. Craw, Rose Bank, Chester Road, Northwich	
Medical Officer—		

District No. 3 (Winsford).

Winsford U.D.	Darnhall	Little Budworth
Marton	Moulton	
Public Vaccinator—	} W. N. Leak, Dingle House, Winsford.	
Medical Officer —		

District No. 4 (Weaverham).

Acton	Crowton	Cuddington
Delamere	Little Leigh	Oakmere
	Weaverham-cum-	Norley
	Milton	
Public Vaccinator—	} W. G. Shaw, Ivy House, Weaverham.	
Medical Officer—		

District No. 5 (Middlewich).

Middlewich U.D.	Allstock	Bostock
Byley	Davenham	Lach Dennis
Nether Peover	Rudheath	Sproston
Stanthorne	Whatcroft	Wimboldsley
Public Vaccinator—	} R. D. Jones, Ivy House, Middlewich.	
Medical Officer—		

* Such part of these Parishes as lies West of the line defined in note * on page 17.

No. 4 (Northwich & Runcorn) Area—Continued.**District No. 6 (Runcorn).**

Runcorn U.D.	Aston	Halton
Norton	Sutton	
Public Vaccinator—	} J. B. Murphy, 1, Queen Street, Runcorn.	
Medical Officer—		

District No. 7 (Budworth).

Antrobus	Appleton	Budworth, Great
Daresbury	Dutton	Grappenhall
Hatton	Moore	Preston Brook
Stockton Heath	Stretton	Walton
	Whitley	
Public Vaccinator—	} C. E. W. Bower, Viewfield, Stretton, Warrington.	
Medical Officer—		

District No. 8 (Frodsham).

Alvanley	Frodsham	Helsby
Kingsley	Manley	
Public Vaccinator—	H. H. James, The Knoll, Frodsham.	
Medical Officer—	H. B. Ellison, Brentwood, Red Lane, Frodsham.	

District No. 9 (Tarporeley).

Rushton	Tarporeley	Utkinton
Public Vaccinator—	} P. A. Campbell, Glenthorne, Tarporeley.	
Medical Officer—		

No. 5 (TARVIN) AREA.**District No. 1 (Hoole).**

Hoole U.D.	Bache	Backford
Barrow-by-Tarvin	Bridge Trafford	Caughall
Chorlton-by-Backford	Christleton	Croughton
Dunham-on-the-Hill	Elton	Great Boughton
Guilden Sutton	Hapsford	Hoole Village
Huntington	Little Stanney	Littleton
Moston	Picton	Rowtor
Saighton	Stoke	Thornton-l.-Moors
Upton-by-Chester	Wervin	Wimbolds Trafford
Public Vaccinator—	} W. J. A. Russell, The Limes, Hoole.	
Medical Officer—		

District No. 2 (Chester Rural).

Aldford	Buerton	Capenhurst
Chester Castle	Churton Heath	Claverton
Dodleston	Eaton	Eccleston
Great Saughall	Lea-by-Backford	Lea Newbold
Ledsham	Little Saughall	Lower Kinnerton
Marlston-cum-Lache	Mollington	Poulton
Puddington	Pulford	Shotwick
Shotwick Park	Woodbank	
Public Vaccinator—	} A. C. Kerr, Old Bars House, Foregate Street, Chester.	
Medical Officer—		

District No. 3 (Tarvin).

Ashton	Bruen Stapleford	Burton-by-Tarvin
Clotton Hoofield	Duddon	Foulk Stapleford
Hockenhull	Horton-cum-Peel	Huxley
Iddenshall	Kelsall	Mouldsworth
Pryor's Hayes	Tarvin	Tilstone Fearnall
Tiverton	Willington	
Public Vaccinator—	} C. R. Fielding, Kelsall.	
Medical Officer—		

No. 5 (Tarvin) Area—Continued.**District No. 4 (Tattenhall).**

Aldersey	Becston	Broxton
Burwardsley	Chowley	Clutton
Cotton Abbotts	Cotton Edmunds	Golborne Bellow
Golborne David	Handley	Harthill
Hatton	Newton-by-Tattenhall	Tattenhall
	Waverton	

Public Vaccinator— } M. Dwyer, Church Bank, Tattenhall.
 Medical Officer— }

District No. 5 (Farndon).

Barton	Caldecott	Carden
Church Shocklach	Churton-by-Aldford	Churton-by-Farndon
Coddington	Crewe-by-Farndon	Edgerley
Farndon	Grafton	Horton-by-Malpas
Kings Marsh	Shocklach Oviatt	Stretton-by-Malpas
	Tilston-by-Malpas	

Public Vaccinator— } J. Alexander, Holly Bank, Farndon.
 Medical Officer— }

District No. 6 (Malpas).

Agden	Bickley	Bradley
Chidlow	Chorlton-by Malpas	Cuddington-by-
Duckington	Edge	Malpas
Hampton	Larkton	Macefen
Malpas	Newton-by-Malpas	Oldcastle
Overton-by-Malpas	Stockton	Threapwood
Tushingham-cum-	Wigland	Wychough
Grindley		

Public Vaccinator— } L. T. Pollard, Prospect House, Malpas.
 Medical Officer— }

No. 6 (WIRRAL) AREA.**District No. 1 (Bebington).**

Bebington M.B.

Public Vaccinator— } E. L. Hamm, Carlett Croft, Ferry Road,
 Medical Officer— } Eastham, Wirral.

District No. 2 (Neston and Wirral).

Neston U.D. Wirral U.D.

Public Vaccinator— } R. L. Turner, 1, Heath Drive, Heswall.
 Medical Officer— }

District No. 3 (Hoylake).

Hoylake U.D.

Public Vaccinator— } H. S. Lancocley, 2, Park Road, West Kirby.
 Medical Officer— }

District No. 4 (Ellesmere Port).

Ellesmere Port U.D.

Public Vaccinator— } R. F. Gerrard, 113, Station Road, Ellesmere
 Medical Officer— } Port.

No. 7 (STALYBRIDGE AND DUKINFIELD) AREA.

District No. 1 (Stalybridge No. 1).

Stalybridge M.B. (Part of *)

Public Vaccinator—W. E. C. Thomas, Bank House, Stalybridge.

Medical Officer—J. A. Jolley, 60, Grosvenor Street, Stalybridge.

District No. 2 (Stalybridge No. 2).

Stalybridge M.B. (Part of †)

Public Vaccinator— } W. E. C. Thomas, Bank House, Stalybridge.

Medical Officer— }

District No. 3 (Dukinfield).

Dukinfield M.B.

Public Vaccinator— } J. Macfie, Clarendon House, Dukinfield.

Medical Officer— }

District No. 4 (Longdendale).

Longdendale U.D. Tintwistle R.D.

Public Vaccinator— } E. Talbot, Prospect House, Mottram.

Medical Officer— }

No. 8 (HYDE AND CHEADLE) AREA.

District No. 1 (Hyde).

Hyde M.B.

Public Vaccinator— } W. S. Brindle, 34, Church Street, Hyde.

Medical Officer— }

District No. 2 (Cheadle).

Cheadle and Gatley U.D.

Public Vaccinator— } T. S. Hanlin, Milton Cottage, Gatley Road,

Medical Officer— } Gatley.

District No. 3 (Hazel Grove).

Hazel Grove and Bramhall U.D.

Public Vaccinator— } D. Kay, 267, London Road, Hazel Grove.

Medical Officer— }

District No. 4 (Bredbury).

Bredbury and Romiley U.D.

Public Vaccinator— } P. V. Cant, Woodley, nr. Stockport.

Medical Officer— }

District No. 5a (Marple No. 1).

Marple U.D. (excluding Ludworth Ward).

Public Vaccinator— } W. A. Jackson, Glengarth, Marple.

Medical Officer— }

District No. 5b (Marple No. 2).

Marple U.D. (Ludworth Ward).

Public Vaccinator— } A. G. Hastings, Overdale, Station Road,

Medical Officer— } Marple.

* The part lying on the North-West side of the River Tame.

† The part lying on the South-East side of the River Tame.

AREA A—BUCKLOW.

District No. 2—Knutsford (20062).

District No. 3—Sale (28575).

District No. 4—Wilmslow (15235).

AREA B—MACCLESFIELD.

District No. 2 (a)—Macclesfield (a) (21936).

Bollington U.D.	..	(5062)	Mottram-St.-Andrew	..	(526)
Adlington	..	(687)	Nether Alderley	..	(757)
Bosley	..	(359)	North Rod	..	(268)
Chelford	..	(341)	Over Alderley	..	(332)
Chorley	..	(376)	Pott Shrigley	..	(441)
Eaton	..	(239)	Poynton	..	(3944)
Gawsworth	..	(668)	Prestbury	..	(1103)
Great Warford	..	(882)	Rainow	..	(1109)
Henbury	..	(404)	Siddington	..	(441)
Hurdsfield	..	(428)	Snelson	..	(200)
Kettleshulme	..	(346)	Sutton	..	(1404)
Lyme Handley	..	(211)	Wildboarelough	..	(169)
Maeclesfield Forest	..	(125)	Winele	..	(208)
Marton	..	(249)	Withington	..	(656)
Vaccination Officer	} M. A. Bevan, Old County Police Buildings, Macclesfield.				
Registrar					

Area B—Macclesfield—Continued.**District No. 2 (b)—Macclesfield (b) (35552).**

Macclesfield M. B. .. (35552)

Vaccination Officer—A. Millward, 10, Waterloo Street West, Macclesfield.

Registrar—M. A. Bevan, Old County Police Buildings, Macclesfield.

AREA C—CREWE.**District No. 1 (a)—Crewe (a) (48321).**

Crewe M.B. .. (48321)

Vaccination Officer } A. W. Highet, 1, Gatefield Street, Crewe.

Registrar }

District No. 1 (b)—Crewe (b) (7550).

Barthomley (257) Shavington (1563)

Basford (177) Warmingham (202)

Crewe (Rural) (177) Weston (490)

Haslington (2882) Wistaston (1260)

Leighton (137) Woolstanwood (81)

Minshull Vernon .. (324)

Vaccination Officer } A. W. Highet, 1, Gatefield Street, Crewe.

Registrar }

District No. 2 (a)—Nantwich (a) (16361).

Nantwich U.D. (8639) Edleston (60)

Acton (206) Faddiley (211)

Aston-juxta-Mondrum .. (139) Hatherton (287)

Austerson (50) Henhull (97)

Baddiley (219) Hough (299)

Baddington (104) Hunsterson (175)

Batherton (53) Hurleston (110)

Blakenhall (178) Lea (37)

Bridgmere (149) Poole (114)

Brindley (187) Rope (92)

Burland (595) Stapeley (510)

Checkley-cum-Wrinehill (235) Stoke (213)

Cholmondeston (158) Walgherton (150)

Chorlton (76) Willaston (1664)

Church Minshull .. (265) Worleston (370)

Doddington (66) Wybunbury (644)

Vaccination Officer } W. Sutton, 1b, Hospital Street, Nantwich.

Registrar }

District No. 2 (b)—Nantwich (b) (8597).

Alraham (436) Haughton (150)

Audlem (1346) Marbury-cum-Quoisley (282)

Bickerton (259) Newhall (645)

Broomhall (184) Norbury (271)

Buerton (421) Peckforton (161)

Bulkeley (120) Ridley (160)

Bunbury (910) Sound (243)

Calvey (270) Spurstow (333)

Cholmondeley (278) Wardle (140)

Chorley (162) Wettenhall (186)

Coole Pilate (52) Wirswall (158)

Dodcott-cum-Wilkesley (547) Woodcott (18)

Egerton (101) Wrenbury (589)

Hankelow (175)

Vaccination Officer—F. E. Davenport, 24, Wellington Rd., Nantwich.

Registrar—W. Sutton, 1b, Hospital Street, Nantwich.

District No. 3—Sandbach (21995).

Alsager U.D.	(2852)	Hassall	(318)
Sandbach U.D.	(8267)	Hulme Walfield ..	(1)
Arclid	(306)	Moreton	(130)
Betchton	(614)	Newbold Astbury ..	(546)
Bradwall	(242)	Odd Rode	(3307)
Brereton	(550)	Smallwood	(615)
Church Hulme	(1143)	Somerford	(102)
Church Lawton	(874)	Somerford Booths ..	(162)
Cranage	(475)	Swettenham	(279)
Elton	(161)	Tetton	(255)
Goostrey	(629)	Twemlow	(107)

Vaccination Officer } W. H. Cross, Council Offices, Middlewich Road,
Registrar } Sandbach.

AREA D—NORTHWICH.**District No. 1—Northwich (37756).**

Northwich U.D.	(20827)	Lach Dennis	(193)
Acton	(551)	Little Leigh	(422)
Allostock	(436)	Lostock Gralam ..	(1095)
Anderton	(329)	Marbury	(37)
Barnton	(3198)	Marston	(530)
Comberbach	(481)	Nether Peover	(200)
Crowton	(474)	Rudheath	(2728)
Cuddington	(1100)	Weaverham	(2714)
Hartford	(1424)	Wincham	(1017)

Vaccination Officer } S. S. Trevor, 21, High Street, Northwich.
Registrar }

District No. 2—Winsford (26454).

Middlewich U.D.	(5857)	Moulton	(1223)
Winsford U.D.	(11346)	Oakmere	(455)
Bostock	(156)	Rushton	(503)
Byley	(191)	Sproston	(210)
Darnhall	(228)	Stanthorne	(169)
Davenham	(1740)	Tarporley	(1382)
Delamere	(1114)	Utkinton	(586)
Little Budworth ..	(530)	Whateroft	(119)
Marton	(500)	Wimboldsley	(145)

Vaccination Officer } O. Parry, Mayfield, St. George's Road, Winsford.
Registrar }

AREA E—RUNCORN.**District No. 1—Stockton Heath (15376).**

Antrobus	(682)	Moore	(456)
Appleton	(1196)	Preston Brook	(397)
Daresbury	(319)	Stockton Heath	(6110)
Dutton	(546)	Stretton	(371)
Grappenhall	(2742)	Walton	(1301)
Great Budworth	(447)	Whitley	(510)
Hatton	(297)		
Vaccination Officer	} Mrs. E. Massey, 33, Fairfield Road, Stockton Heath.		
Registrar			

District No. 2—Runcorn (34791).

Runcorn U.D.	(22587)	Kingsley	(1456)
Alvanley	(287)	Manley	(840)
Aston	(256)	Norley	(871)
Frodsham	(4703)	Norton	(158)
Halton	(1020)	Sutton	(631)
Helsby	(1982)		
Vaccination Officer	} H. V. Davies, Council Offices, Waterloo Road, Runcorn.		
Registrar			

AREA F—HYDE.**District No. 1—Stalybridge (31515).**

Stalybridge M.B.	(24978)	Longdendale U.D.	(5145)
Tintwistle R.D.	(1392)		
Vaccination Officer	} N. Potts, Union Bank Chambers, Market Street, Stalybridge.		
Registrar			

District No. 2—Hyde (32313).

Hyde M.B.	(32313)		
Vaccination Officer	} H. Morton, 30 Market Place, Hyde.		
Registrar			

District No. 3—Dukinfield (19385).

Dukinfield M.B.	(19385)		
Vaccination Officer	} G. R. Swindells, Town Hall, Dukinfield.		
Registrar			

AREA G—NORTH EAST CHESHIRE.**District No. 1—Bredbury (11690).**

Bredbury and Romiley U.D. (11690)			
Vaccination Officer—H. Whalley, Public Assistance Office, Shaw Heath, Stockport.			
Registrar—E. Love, Council Offices, Bredbury.			

District No. 2—Hazel Grove (26880).

Hazel Grove and Marple U.D.	(11088)		
Bramhall U.D.	(13178)	Disley R.D.	(2614)
Vaccination Officer	} F. Ardern, Council Offices, Hazel Grove.		
Registrar			

District No. 3—Cheadle (18535).

Cheadle and Gatley U.D. (18535)			
Vaccination Officer—J. H. Johnson, 77, High Street, Cheadle.			
Registrar—W. S. Marsh, 11, Ashfield Road, Cheadle.			

AREA H—WIRRAL.

District No. 1—East Wirral (31877).

Bebington M.B. .. (31877)

Vaccination Officer } A. O. Davies, 218, Bebington Road,
Registrar } Bebington.

District No. 2—West Wirral (37255).

Hoylelake U.D. (19745) Wirral U.D. (9599)

Neston U.D. (7911)

Vaccination Officer } J. R. Bird, 96b, Market Street, Hoylelake.
Registrar }

AREA J—WEST CHESHIRE.

District No. 1 Chester Castle * (43457).

Ellesmere Port U.D. ..	(23057)	Huntington	(144)
Hoole U.D.	(5892)	Lea-by-Backford ..	(165)
Aldford	(347)	Lea Newbold	(39)
Bache	(62)	Ledsham	(173)
Backford	(124)	Little Saughall ..	(304)
Barrow-by-Tarvin ..	(910)	Little Stanney ..	(170)
Bridge Trafford ..	(50)	Littleton	(336)
Buerton	(61)	Lower Kinnerton ..	(113)
Capenhurst	(157)	Marlston-cum-Lache ..	(60)
Caughall	(13)	Mickle Trafford ..	(263)
Chester Castle	(228)	Mollington	(350)
Christleton	(997)	Moston	(81)
Chorlton-by-Backford ..	(82)	Picton	(97)
Churton Heath	(15)	Poulton	(119)
Claverton	—	Puddington	(332)
Croughton	(21)	Pulford	(261)
Dodleston	(247)	Rowton	(168)
Dunham-on-the-Hill ..	(316)	Saighton	(347)
Eaton	(143)	Shotwick	(73)
Eccleston	(291)	Shotwick Park ..	(26)
Elton	(252)	Stoke	(101)
Great Boughton	(1862)	Thornton-le-Moors ..	(166)
Great Saughall	(865)	Upton-by-Chester ..	(2667)
Guilden Sutton	(382)	Wervin	(103)
Hapsford	(112)	Wimbolds Trafford ..	(73)
Hoole Village	(162)	Woodbank	(88)

Vaccination Officer— } Mrs. A. J. Raeper, 7 & 8, Godstall Chambers,
Registrar— } Chester

* This district comprises Ellesmere Port, Hoole U.D. and Chester R.D.

Area J—West Cheshire—*Continued.*

District No. 2—Tarvin Rural * (14388).

Agden	(75)	Hampton	(366)
Aldersey	(92)	Handley	(250)
Ashton	(430)	Harthill	(95)
Barton	(103)	Hatton	(132)
Beeston	(268)	Hockenhull	(21)
Bickley	(302)	Horton	(120)
Bradley	(136)	Horton-cum-Peel	(37)
Broxton	(507)	Huxley	(253)
Bruen Stapleford ..	(114)	Iddinshall	(14)
Burton-by-Tarvin ..	(41)	Kelsall	(874)
Burwardsley	(298)	King's Marsh	(63)
Caldecott	(42)	Larkton	(37)
Carden	(151)	Macefen	(65)
Chidlow	(13)	Malpas	(1101)
Chorlton-by-Malpas ..	(90)	Mouldsworth	(194)
Chowley	(61)	Newton-by-Tattenhall ..	(198)
Church Shocklach ..	(162)	Newton-by-Malpas ..	(13)
Churton-by-Aldford ..	(191)	Oldcastle	(84)
Churton-by-Farndon ..	(145)	Overton-by-Malpas ..	(98)
Clotton Hoofield ..	(382)	Pryor's Heyes	(11)
Clutton	(56)	Shocklach Oviatt ..	(149)
Coddington	(95)	Stockton	(20)
Cotton Abbots	(11)	Stretton-by-Malpas ..	(79)
Cotton Edmunds	(65)	Tarvin	(1251)
Crewe-by-Farndon ..	(47)	Tattenhall	(1008)
Cuddington-by-Malpas ..	(236)	Threapwood	(279)
Duddon	(194)	Tilston-by-Malpas ..	(347)
Duckington	(65)	Tilstone Fearnall ..	(118)
Edge	(238)	Tiverton	(525)
Edgerley	(11)	Tushingham	(234)
Farndon	(560)	Waverton	(479)
Foulk Stapleford ..	(205)	Wigland	(104)
Golborne Bellow ..	(103)	Willington	(167)
Golborne David ..	(84)	Wychough	(16)
Grafton	(13)		

Vaccination Office } F. Pritchard, Keyesbrook, Tattenhall.
Registrar

*This District is co-extensive with Tarvin Rural Sanitary District.

MEDICAL OFFICERS AND PUBLIC VACCINATORS OF PUBLIC ASSISTANCE INSTITUTIONS

CONGLETON	Dr. A. Henderson, Sandbach.
NANTWICH	Dr. S. Johnstone, Nantwich.
NORTHWICH	Dr. J. W. Craw, Northwich.
RUNCORN	Dr. C. E. W. Bower, Stretton.
TARVIN	Dr. H. L. W. Woodroffe, Chester.

REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1946

Section I.-Area and Population

Area

The acreage of the County at the end of 1946 was 622,746 acres.

Population

The population of the Administrative County, as enumerated at the Census of 1931, was 665,575. The estimate of the Registrar-General for mid 1946 was 765,510.

Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/46 was £5,279,954. A penny rate over the whole County for 1946-47 represented the sum of £21,050 (estimated).

Section II.-Births and Deaths

The figures are for the Administrative County, 1946, unless otherwise stated.

Live Births:—

	Total.	Male	Female
Legitimate	13077	6656	6421
Illegitimate	757	391	366

Birth Rate per 1,000 of the estimated resident population, 18.1.

	Total.	Male	Female
Stillbirths	452	232	220
Stillbirths Rate per 1,000 total (live and still) births, 31.6.			

	Total.	Male	Female
Deaths	9271	4671	4600

Death Rate per 1,000 of population, 12.1.

The principal causes of death were as follows:—

Disease.	No. of Deaths.	Rate per million population.
Heart Disease	2657	3471
Cancer	1459	1906
Intra-cranial vascular lesions	1089	1423
Pneumonia	301	393
Tuberculosis (all forms)	310	405
Pulmonary	268	350
Non-Pulmonary	42	55
Nephritis	302	395
Bronchitis	485	634

The deaths from the chief zymotic diseases were as follows:—

Disease.	No. of Deaths.	Rate per million population.
Diphtheria	2	3
Whooping Cough	8	10
Measles	5	7
Diarrhoea and Enteritis		
(under 2 years)	53	69
Scarlet Fever	1	1
Typhoid and Paratyphoid	2	3
Smallpox		

The zymotic Death Rate was .09 per 1,000.

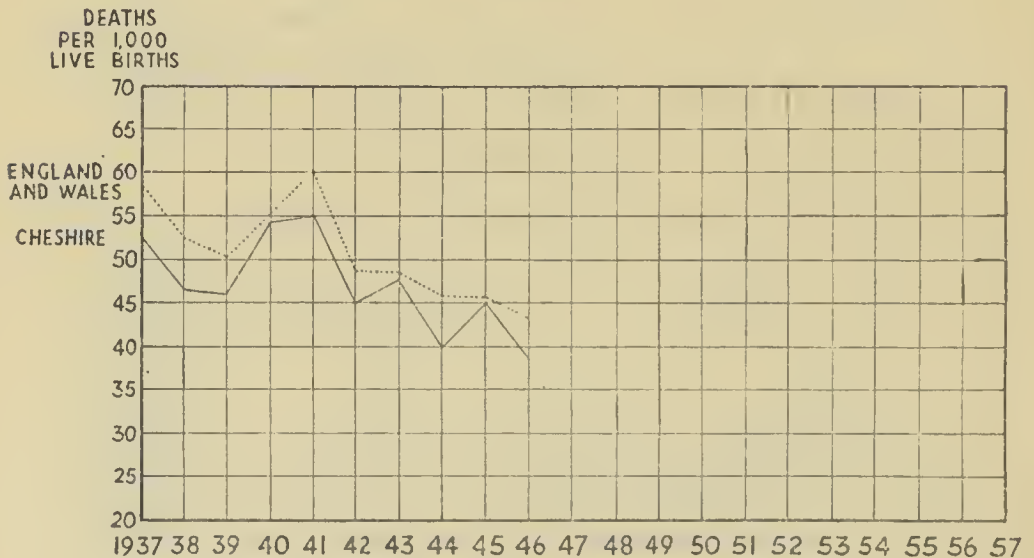
Infantile Mortality.

There have been 534 deaths of infants under 1 year in the Administrative County during 1946, i.e., 484 legitimate and 50 illegitimate. These figures show an infantile mortality as follows:—

All infants per 1,000 live births	38·6
Legitimate infants per 1,000 legitimate live births	37·0
Illegitimate infants per 1,000 illegitimate live births	66·1

The figures for recent years are shown in the following diagram :—

INFANTILE MORTALITY



Deaths from Puerperal Causes:—

	Deaths.	Rate per 1,000 total (live and still) births.
Puerperal Sepsis	7	·49
Other Puerperal Causes	25	1·75
Total	32	2·24

[illegible]

TABLE 1.—INFECTIOUS DISEASE OTHER THAN SMALLPOX

Area	County Districts.	Hospital Authority.	Situation of Hospital.	Accommodation		
				Blocks	Wards	Beds
1	Sale M.B.	N. Ches. J.H.B. ^a ^a Beds for Districts in Board's Area provided by agreement with Manchester except where indicated	Monsall, Manchester	—	—	45
	Ald'ley Edge U.D.			—	—	10
	Hale U.D.			—	—	10
	Knutsford U.D.	^b Continues separate provision, also serves Bowdon ^c Agree. with Warrington	Sinderland Rd., Altrincham. Warrington.	4	8	34
	Wilmslow U.D.			(As required).		
	Bucklow R.D.					
2	Cheadle and Gatley U.D.	^d Agree. with Chester, including smallpox	Sealand Rd., Chester.	—	—	4 ^d
	Altrincham M.B. ^b			—	—	8 ^d
	Bowdon U.D.					
3	Lymm U.D. ^c	Congleton and District J.H.B. ^e ^e Includes Biddulph (6 beds)	West Heath, Congleton.	4	11	45 ^e
	Congleton M.B.					
	Alsager U.D.					
4	Sandbach U.D.		Crewe.	4	12	40
	Congleton R.D.					
5	Crewe M.B.		Weston Rd., Runcorn.	2	4	32
	Runcorn U.D.			(including 12 cots)		
6	Runcorn R.D.		Preston Brook.	3	9	36
7	Hyde M.B. ^f	^f All other Authorities have made agreements with Hyde	Back Bower Lane, Hyde.	4	22	50 *
	Dukinfield M.B.			* Shared with Denton, Mossley, Audenshaw and Ashton-u-Lyne, who are entitled to 20 beds		
	Stalybridge M.B.					
	Bredbury and Romiley U.D.	^g Provisional agreement only. See also under Table 2.	Moss Lane, Macclesfield.	4	10	66
	Hazel Grove and Bramhall U.D.			(One cubicle).		
	Marple U.D.					
8	Disley R.D.	^h The other two Authorities have agreements with Macclesfield M.B.	Alvaston, Nantwich.	3	6	41
	Longd'le U.D. ^g			(including 22 cots)		
	Tintwistle R.D. ^g					
9	Macclesfield M.B. ^h		Davenham.	4	12	50
	Bollington U.D.					
	Macclesfield R.D.					
10	Nantwich U.D.	Northwich and District J.H.B.	Clatterbridge.	6	15	105
	Nantwich R.D.					
11	Middlewich U.D.	Wirral J.H.B.				
	Northwich U.D.					
	Winsford U.D.					
	Northwich R.D.					
	Bebington M.B.					
	Ell'm're P't U.D.					
	Hoylake U.D.					
	Neston U.D.					
	Wirral U.D.					
11	Chester R.D.					

Area	Bucklow R.D.	Hospital Authority.	Situation of Hospital.	Accommodation		
				Blocks	Wards	Beds
1	Sale M.B. Ald'l'y Edge U.D. Hale U.D. Knutsford U.D. Wilmslow U.D. County Districts. Altrincham M.B. Bowdon U.D. Cheadle and Gatley U.D. Lymm U.D. ^b	N. Ches. J.H.B. ^a <i>a Beds for Districts in Board's Area provided by agreement with Manchester except where indicated</i> <i>b Agree. with Warrington</i>	Clayton, Manchester. Warrington.	(As required)		
2	Congleton M.B. Alsager U.D. Sandbach U.D. Congleton R.D. Crewe M.B. ^c	Congleton and District S.P.J.B. <i>c Contracts with Board for 6 Beds</i>	Arclid, Sandbach.	2	2	12
3	Hoole U.D. ^d Tarvin R.D. ^d	<i>d Agree. with Chester</i>	Sealand Rd., Chester.	(As required— see Table 1)		
4	Hyde M.B. ^e Dukinfield M.B. Bredbury and Romiley U.D. Hazel Grove and Bramhall U.D. Marple U.D. Disley R.D. Longd'd'le U.D. ^f Tintwistle R.D. ^f	<i>e All other Authorities (except Tintwistle and Longendale) have made agreements with Hyde</i> <i>f Hollingworth, Mottram and Tintwistle J.C.</i>	Old Road, Hyde. Carrhouse Lane, Mottram.	2 6 48*	*Shared with Denton, Droylsden, Stockport & Rochdale, who are entitled to 9 beds. See also under Area 5.	
5	Mac'sfield M.B. ^g Bollington U.D. ^g Mac'sfield R.D. ^g	<i>g Agree. with Congleton and District. S.P.J.B.</i>		1 2 6*	*For all infectious disease (Priority to Smallpox) (As required)	
6	Nantwich U.D. Nantwich R.D.	Nantwich J.H.B.	Ravensmoor, Nantwich.	1 2 6		
7	Middlewich U.D. Northwich U.D. Winsford U.D. Northwich R.D.	Northwich and District J.H.B.	Marbury, Northwich.	3 9 15		
8	Runcorn U.D. ⁱ Runcorn R.D. ⁱ	<i>i Agree. with Warrington</i>	Warrington.	(As required)		
9	Bebington M.B. Ellesmere Port Ell'm're P't U.D. Hoylake U.D. Neston U.D. Wirral U.D. Chester R.D.	Wirral J.H.B. ^j <i>j Agree. with Liverpool</i>	Liverpool Port Sanitary Hospital, New Ferry (and others in Liverpool).	(As required)		
10	Stalybridge M.B. ^k	<i>k Member of Ashton, etc. J.S.P.H.B.</i>	Ashton-u-Lyne	(As required)		

AMBULANCES

All cases of infectious disease are dealt with by the ambulances attached to the various Isolation Hospitals.

Apart from infectious cases the following are the arrangements made by the County Districts:—

Altrincham Borough	Three motor ambulances.
Bebington Borough	Two motor ambulances attached to Port Sunlight Hospital; Council makes annual payment.
Congleton Borough	One motor ambulance.
Crewe Borough	Three motor ambulances.
Dukinfield Borough	Make use of Hyde Ambulance.
Hyde Borough	Three motor ambulances.
Macclesfield Borough	Two motor ambulances.
Sale Borough	Four motor ambulances.
Stalybridge Borough	Two motor ambulances.
Alderley Edge Urban	One motor ambulance.
Alsager Urban	One motor ambulance.
Bollington Urban	Have arrangement with Macclesfield Corporation.
Bowdon Urban	Two motor ambulances jointly with Hale.
Bredbury Urban	Arrangement with Hyde Corporation.
Cheadle Urban	Two motor ambulances provided by St. John and Red Cross.
Ellesmere Port Urban	Two motor ambulances.
Hazel Grove Urban	Arrangement with Stockport Corporation.
Hoole Urban	Standing Joint Committee has arrangement with Chester City.
Hoylake Urban	One motor ambulance jointly with Wirral U.D.
Knutsford Urban	Agreement with Altrincham.
Longdendale Urban	Arrangement with Hyde.
Lymm Urban	Agreement with Altrincham.
Marple Urban	Arrangement with Stockport.
Middlewich Urban	Make use of ambulances from Northwich.
Nantwich Urban	Maintain an ambulance jointly with Rural District.
Neston Urban	Use Clatterbridge ambulances.
Northwich Urban	Three motor ambulances.
Runcorn Urban	Council subsidise a private firm for the use of a motor ambulance.
Sandbach Urban	An annual sum is paid for the use of two St. John motor ambulances.

Wilmslow Urban	One motor ambulance.
Winsford Urban	One motor ambulance; also made use of Red Cross ambulance.
Wirral Urban	One motor ambulance jointly with Hoylake U.D.
Bucklow Rural	Agreement with Altrincham.
Chester Rural	Standing Joint Committee has agreement with Chester City.
Congleton Rural	Make use of Sandbach ambulances.
Disley Rural	Have services of Stockport ambulance
Macclesfield Rural	Agreement with Macclesfield Borough.
Nantwich Rural	Maintain an ambulance jointly with Urban District.
Northwich Rural	Make use of the ambulances from Northwich.
Runcorn Rural	Two motor ambulances.
Tarvin Rural	Standing Joint Committee has agreement with Chester City.
Tintwistle Rural.	Utilise the Hyde ambulance.

The Standing Joint Committee pays an annual sum of £100 for the use of Chester City Ambulances within a 10-mile radius.

The ambulances at Clatterbridge County Hospital serve the districts from which patients are conveyed to that Institution.

Section IV.-Venereal Diseases

The following information is compiled from the returns supplied by the treatment centres used by County patients in 1946:—

Institution.	Persons attending for first time at Out-Patient Clinic suffering from				Total attendances at Out-Patient Clinic.
	Syphilis.	Soft Chancre	Gonorrhœa.	Non-Venereal conditions.	
Ashton-under-Lyne Infirmary ...	17	—	35	33	1482
Birkenhead Hospital ...	16	—	51	86	1959
Bolton Clinic	—	—	1	—	5
Chester Royal Infirmary ...	30	—	45	37	1390
Crewe Herdman Street Clinic ...	41	—	90	175	5953
Harwich Clinic	—	—	—	1	2
Liverpool Mill Road Infirmary ...	—	—	3	2	40
Liverpool Royal Infirmary ...	12	—	19	39	605
Liverpool Seamen's Dispensary ...	8	5	35	99	660
Luton Clinic	1	—	—	—	4
Macclesfield West Park Clinic ...	32	—	58	120	5154
Manchester Ancoats Hospital ...	3	—	11	13	208
Manchester Royal Eye	1	—	—	—	378
Manchester Royal Infirmary ...	30	—	50	102	1961
Manchester Skin Hospital ...	15	—	1	20	746
Manchester St. Luke's	16	—	77	106	1648
Manchester St Mary's	6	—	1	17	284
Oldham Royal Infirmary	—	—	3	2	43
Oxford, Radcliffe Infirmary ...	—	—	1	—	1
Salford Borough Hospital ...	4	2	21	27	675
Shrewsbury Clinic	—	—	—	2	25
Southend Sanatorium'	1	—	—	—	1
Stockport Clinic	15	—	30	72	1410
Stoke-on-Trent Clinic	1	—	1	6	118
Stoke-on-Trent, North Staffs. Infirmary ...	4	—	6	21	697
Warrington Borough Hospital ...	13	—	28	53	1191
TOTALS	266	7	567	1033	26650

REGULATION 33b.

Contacts notified to the Medical Officer of Health during the period 1st January, 1946 to 31st December, 1946.

	M.	F.
(1) (a) Total number of contacts in respect of whom form 1 was received	0	27
(b) Number in (a) transferred from other areas	0	1
(2) Number of cases in (1) in which attempts were made during the current period outside the scope of the Regulation to persuade the contact to be examined before the latter had been named on a second Form 1:—		
Contacts found	0	20
Contacts examined or already under treatment	0	19
(3) (a) Number of those in (1) in respect of whom two or more Forms 1 were received	0	4
(b) Number included in (3) (a) in respect of whom the first Form 1 was previously reported under (1)	0	2
(c) Number included in (3) (a) transferred from other areas	0	0
(4) Number of those (3) (a) who were:—		
(a) found	0	3
(b) examined after persuasion or already under treatment	0	2
(c) served with Form 2	0	1
(d) examined after service of Form 2	0	1
(e) prosecuted for failure:—		
(i.) to attend for, and submit to, medical examination	0	0
(ii.) to submit to and continue treatment	0	0
(f) transferred to other areas	0	0

Section V.-Tuberculosis, etc.

Statistics

The annual tuberculosis returns for the Ministry of Health were in great part eliminated. For the sake of continuity, however, the main figures for the year under review and the two previous years are set out for comparison:—

	1946	1945	1944
New cases notified (primary)			
Pulmonary ...	370	480	512
New cases notified (primary)			
Non-pulmonary ...	140	189	222
Total ...	510	669	734
No of cases remaining on Registers of Notifications kept by District M.O's.H., December 31st. ...	5249	5415	5732
No. of Deaths from all forms of Tuberculosis ...	310	302	332
Death-rate from all forms of Tuberculosis per 1,000 of the population	0·40	0·41	0·45
New Applicants for Treatment	319	418	437
No. of Cases on Dispensary Registers, 31st December	5810	5894	5803

The following table shows the number of insured (including discharged service cases) and uninsured persons who have received treatment during the years 1937-46:—

YEAR.	INSURED.		UNINSURED.		TOTAL.
	Males.	Females.	Males.	Females.	
1937	498	208	294	344	1344
1938	487	227	280	347	1341
1939	507	220	244	281	1252
1940	509	209	168	238	1124
1941	490	204	157	222	1073
1942	506	185	151	201	1043
1943	451	193	160	209	1013
1944	424	199	131	185	939
1945	450	202	105	202	959
1946	354	192	126	190	862

Number of new applications for treatment under the County Tuberculosis Scheme during the years 1937-46:—

YEAR.	Dis- CHARGED SERVICE CASES	INSURED.	UNINSURED.	TOTAL.
1937	1	309	298	608
1938	—	281	294	575
1939	1	306	228	535
1940	7	314	193	514
1941	34	263	163	460
1942	34	245	157	436
1943	44	251	153	448
1944	69	218	150	437
1945	42	228	148	418
1946	38	179	102	319

Table relating to Tuberculosis in children under 16:—

Year.	Number of Children notified as suffering from Pulmonary Tuberculosis.	Number of Children notified as suffering from Non-Pulmonary Tuberculosis.	Percentage of Total Notifications.	
			Pulmonary.	Non-Pulmonary.
1937	25	193	5.0	65.7
1938	32	185	6.1	66.8
1939	24	181	5.6	65.4
1940	25	136	5.3	68.0
1941	17	146	3.3	65.8
1942	21	149	4.6	58.4
1943	17	126	3.7	57.3
1944	20	143	3.9	64.4
1945	14	124	2.9	65.6
1946	12	82	3.2	58.6

Beds Occupied.

The number of beds occupied in institutions other than the Cheshire Joint Sanatorium or Wrenbury Hall at 1st April, was as follows:—

Year.	Beds occupied.
1935	205
1936	206
1937	226
1938	229
1939	229
1940	175
1941	174
1942	173
1943	155
1944	148
1945	161
1946	151
1947	164

Statement shewing number of patients who received institutional treatment during 1946:—

Institution	Adults		Child- ren under 16	Total	Average number of beds occupied	Average period in residence	
	Males	Fe- males				Wks.	Days
SANATORIA							
Cheshire Joint Sanatorium ..	143	149	—	292	117·20	21	0
Wrenbury Hall ..	76	—	—	76	23·34	16	0
Liverpool Sanatorium..	19	24	—	43	7·53	9	1
Nab Top Sanatorium ..	1	3	—	4	1·87	24	3
Crossley Sanatorium ..	3	3	—	6	2·99	26	0
Cleaver Sanatorium ..	—	1	—	1	·95	52	1
Mundesley Sanatorium ..	2	7	—	9	4·22	24	3
Preston Hall Sanatorium ..	1	—	—	1	·08	4	2
Nayland Sanatorium ..	—	3	—	3	2·54	44	1
Warrington Sanatorium ..	9	19	—	28	12·50	23	2
Llanbedr Hall ..	4	3	—	7	1·93	14	2
Barrowmore Hall ..	3	—	—	3	1·99	34	4
Papworth Hall ..	—	1	—	1	1·00	52	1
Pendyffryn Hall ..	1	2	—	3	1·28	22	2
Cornish Riv. Sanatorium ..	1	—	—	1	·44	23	1
Kelling Sanatorium ..	1	—	—	1	·25	13	1
Meadowslea Hospital ..	—	1	—	1	·51	26	5
King Edward VII. Sana. ..	1	—	—	1	·21	10	5
Total ..	265	216	—	481	180·83	24	4
PULMONARY HOSPITALS							
Hyde Pavilion ..	82	—	—	82	30·58	19	3
Baguley Sanatorium ..	7	9	—	16	8·35	27	1
Brompton Hospital ..	—	1	—	1	·19	9	6
Broadgreen Hospital ..	3	—	—	3	·76	13	2
Warrington Boro. Hospital ..	1	—	—	1	·16	8	1
Crewe Pavilion ..	1	—	—	1	·22	11	3
Sealand Pavilion ..	—	1	—	1	·003	—	1
Total ..	94	11	—	105	40·263	12	5
GENERAL HOSPITALS							
Albert Infirmary, Winsford ..	1	1	2	4	·61	7	6
Stockport Infirmary ..	—	—	1	1	·10	5	2
Ashton-u-Lyne Infirmary ..	—	1	—	1	·04	1	6
Macclesfield General Infirmary ..	1	—	—	1	·06	2	6
Manchester Royal Infirmary ..	3	5	6	14	·62	2	2
Altrincham General Hospital..	—	5	11	16	·94	3	0
Warrington Infirmary..	—	—	1	1	·01	0	3
Ancoats Hosp., Manchester ..	1	—	—	1	·13	7	0
Royal Liverpool (Heswall) ..	—	—	11	11	2·96	14	0
Northwich Infirmary ..	—	—	1	1	·02	0	6
Total ..	6	12	33	51	5·49	4	4
ORTHOPAEDIC HOSPITALS							
Leasowe Open-Air Hospital ..	—	7	39	46	24·18	27	3
Oswestry Orthopaedic Hospital ..	9	20	36	65	34·61	27	5
Hartshill Orthopaedic Hospital ..	1	6	8	15	4·02	14	0
Marple Orthopaedic Hospital ..	—	—	9	9	5·38	31	1
Total ..	10	33	92	135	68·19	25	1
CONVALESCENT HOMES							
Wm. & John Jones Conv. Home ..	—	—	1	1	·37	19	2
Total ..	—	—	1	1	·37	19	2
TOTAL ALL INSTITUTIONS	375	272	126	773	295·14	17	2

Table showing primary notifications and deaths from Tuberculosis since 1st February, 1913, when compulsory notification began in Cheshire.

Year	Primary notifications Form A		Deaths	Death rate per 1,000 population	
1913	..	1224	..	651	.. 1.04
1914	..	1293	..	655	.. 1.05
1915	..	1001	..	677	.. 1.12
1916	..	999	..	677	.. 1.18
1917	..	770	..	671	.. 1.18
1918	..	770	..	744	.. 1.35
1919	..	789	..	592	.. .98
1920	..	892	..	578	.. .92
1921	..	908	..	527	.. .83
1922	..	786	..	550	.. .86
1923	..	850	..	488	.. .76
1924	..	1016	..	512	.. .79
1925	..	883	..	510	.. .78
1926	..	939	..	489	.. .73
1927	..	892	..	488	.. .73
1928	..	932	..	499	.. .74
1929	..	917	..	465	.. .69
1930	..	838	..	438	.. .64
1931	..	802	..	438	.. .64
1932	..	751	..	460	.. .66
1933	..	754	..	389	.. .57
1934	..	765	..	377	.. .54
1935	..	739	..	367	.. .52
1936	..	752	..	348	.. .49
1937	..	799	..	373	.. .52
1938	..	802	..	360	.. .49
1939	..	709	..	358	.. .48
1940	..	674	..	403	.. .52
1941	..	740	..	402	.. .52
1942	..	713	..	302	.. .40
1943	..	685	..	339	.. .46
1944	..	734	..	332	.. .45
1945	..	669	..	302	.. .41
1946	..	510	..	310	.. .40

The 1946 deaths are made up as follows:—

	Male.	Female.	Total.
Pulmonary ..	170	98	268
Non-Pulmonary ..	24	18	42
	194	116	310

Death Rates, 1946.

All forms, .40 per 1000 of population.
 Pulmonary, .35 per 1000 of population.
 Non-Pulmonary, .05 per 1000 of population.

**Summary of Notifications during the period from the
1st January, 1946, to the 31st December, 1946**

Formal Notifications

Age Periods	Number of Primary Notifications of new cases of tuberculosis											Total (all ages)	Total Notifications
	0-	1-	5-	10-	15-	20-	25-	35-	45-	55-	65-		
Pulmonary Males	—	2	4	1	19	47	43	40	35	31	17	239	265
„ Females	1	—	1	3	20	31	45	11	9	9	1	131	150
Non-pulmonary Males	2	13	25	7	6	2	3	4	3	2	1	68	71
„ Females	—	10	15	10	6	11	5	7	2	4	2	72	76

SUPPLEMENTAL RETURN

New Cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification

Age Periods	0-	1-	5-	10-	15-	20-	25-	35-	45-	55-	65-	Total
Pulmonary Males	—	1	—	1	—	5	17	13	10	7	3	57
„ Females	—	—	—	—	4	14	21	6	1	4	2	52
Non-pulmonary Males	—	3	4	1	4	1	—	—	1	—	2	16
„ Females	—	4	1	—	—	—	3	1	—	2	—	11

The source or sources from which information as to the above-mentioned cases was obtained are stated below:—

Source of Information		No. of Cases	
		Pulmonary	Non-Pulmonary
Death Returns	{ From Local Registrars	—	—
	{ Transferable deaths from Registrar General	31	7
		7	11
Posthumous notifications	—	3	—
“Transfers” from other areas (other than transferable deaths)	—	68	9
Other Sources	—	—	—

COUNTY PUBLIC HEALTH LABORATORY

Specimens examined in the County Public Health Laboratory during the year 1946 for:—

<i>Sanatoria—</i>	Neg.	Pos.
Wrenbury Hall	267	101
Borough Hospital, Hyde (Tuberculosis Pavilion)	41	105
<i>Other Institutions—</i>		
Altrincham General Hospital	3	
Arclid Hospital	1	
Congleton War Memorial Hospital	1	
Cheadle Royal Mental Hospital	10	2
Dutton Institution	4	
David Lewis Colony, Warford	4	
Ellesmere Port and District Hospital... ..	13	6
Knutsford Cottage Hospital	1	
Macclesfield General Infirmary	5	
Parkside Mental Hospital, Macclesfield... ..	2	
Port Sunlight Hospital	2	
The Barony Hospital, Nantwich	10	2
Tarvin Hospital	1	
West Park Hospital, Macclesfield... ..	25	
<i>Districts outside the County—</i>		
Warrington C.B.	3	
Shropshire C.C.	1	
Lancs. C.C.	1	
Chester C.B.	3	
Stockport C.B.	1	

Total Number of Specimens Examined during the Year 1946.

	Neg.	Pos.
Sputa for T.B. Examination (18.2 per cent. positive)	2253	501
Pleuritic Specimens	19	1
Urines... ..	5	
Pus	11	1
Culture for Tubercle Bacilli... ..	113	12
Concentration Method, Patients' Sputa for T.B.	81	7
Milk, Bulk Samples Microscopic Examina- tions for T.B.	39	2
	2521	524

Total number examined	3045
Milks examined by Reductase Test ...	13529
(Failed 1709, Satisfactory 11820)	
Milks examined by Coliform Test ...	10303
Milks examined by Phosphatase Test	317
Milks examined by Plate Count	7
Total number of examinations made	27201

Statement giving Particulars of Public Health Laboratory

From Patients for T.B..

YEAR	Sputa		Urines		Glands		Pleural Effusions		Pus.		Hair for Ring-worm		Fæces		Cultures		Total
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	
1936	545	2086	..	4	..	..	..	4	..	3	..	..	..	2	..	..	2644
1937	577	2327	...	5	..	..	..	5	..	6	3	1	..	1	..	..	2925
1938	688	2333	...	8	..	..	..	3	1	6	...	1	...	3	..	...	3043
1939	602	2192	1	4	1	1	1	6	1	15	...	...	...	1	..	...	2825
1940	634	2496	...	10	...	1	...	18	1	9	...	1	...	1	18	153	3342
1941	594	2571	...	2	...	...	...	16	1	4	11	8	...	1	10	278	3496
1942	549	2774	...	4	...	...	1	9	1	6	4	9	...	...	13	310	3680
1943	591	3021	1	4	...	...	1	19	...	7	1	5	...	..	11	232	3893
1944	548	2651	1	2	...	...	1	15	1	14	1	6	1	...	17	182	3440
1945	540	2335	2	2	...	...	3	17	1	10	...	2	...	1	7	83	3003
1946	501	2253	...	5	...	...	1	19	1	11	...	...	..	..	12	113	2916

**Specimens Examined in County
during the Years 1936 to 1946**

From Cows for T.B.				Milks examined by Reductase Test	Milks examined by Coliform Test	Milks examined by Phosphat- ase Test	Milks examined by Plate Count	Total Number of Specimens examined	Concentra- tion Method Patients' Sputa.		Total Number of Examina- tions made
Milk		Sputa							Pos.	Neg.	
Pos.	Neg.	Pos.	Neg.								
71	928	7	1	...	...	...	...	3751	27	611	4389
85	892	7	4	...	...	...	...	9433	25	324	9782
58	549	4	...	12088	12088	...	...	27830	62	277	28169
28	1802	...	..	12354	12225	...	...	29234	19	41	29294
9	1228	..	..	12517	12517	...	...	29613	10	156	29779
1	104	..	...	11132	9000	16	16	23765	17	268	24050
2	115	...	...	12376	8611	2	22	24808	11	310	25129
4	154	...	...	13467	7044	12	12	24586	11	212	24809
1	182	...	...	12400	6294	...	3	22320	9	161	22490
...	4	...	...	12726	9381	219	138	25471	4	54	25529
2	39	...	...	13529	10303	317	7	27113	7	81	27201

Orthopaedic Clinics

The following table shows the attendances at the Clinics (excluding those made for sunlight treatment only):—

Clinic	On registers 1/1/46	Admitted 1946	Dis- charged 1946	On registers 31/12/46	Attend- ances
Alderley Edge..	3	1	1	3	—
Altrincham ..	5	—	1	4	10
Chester ..	13	2	1	14	39
Congleton ..	9	1	5	5	35
Crewe ..	39	8	3	44	163
Ellesmere Port	9	—	4	5	13
Hoylake ..	5	—	3	2	9
Hyde ..	3	1	—	4	52
Macclesfield ..	—	2	—	2	16
New Ferry ..	4	—	1	3	8
Northwich Infirm.	1	—	1	—	—
Northwich Parkfield	17	6	3	20	60
Runcorn ..	8	1	1	8	24
Stockton Heath	2	—	—	2	17
Total ..	118	21	23	116	446

Artificial Sunlight Treatment

The following table shows the attendances made at various clinics by tuberculous patients:—

Clinic	On registers 1/1/46	Admitted 1946	Dis- charged 1946	On registers 31/12/46	Attend- ances
Altrincham Hosp.	15	3	17	1	220
Hyde Clinic ..	3	2	5	—	105
Liverpool, Belmont Rd. Hospital	4	3	1	6	104
Marple Children's Hospital	—	2	2	—	44
Manchester & Salford Skin Hospital	40	7	3	44	484
Northwich Infirm.	2	—	2	—	66
Warrington Infirm.	6	2	4	4	92
Total ..	70	19	34	55	1115

Section VI.-Maternity and Child Welfare

Area

The County area, for the purpose of the Midwives Acts and inspection of Nursing Homes (see Part A of this Section) comprises the whole of the Administrative County, but for Maternity and Child Welfare and Child Life Protection (see Part B of this Section) excludes the Boroughs of Altrincham, Bebington, Crewe, Hyde, Macclesfield and Stalybridge, also the Urban Districts of Ellesmere Port, Hale and Knutsford.

A.

Number of Midwives in Practice

There were 379 midwives who notified their intention to practise in the County Area during 1946.

County Midwives	70
District Nursing Association... ..	111
Independent Midwives	78
Midwives living outside the County area	10
In Institutions and Nursing Homes	110

Inspection of Midwives

Visits paid by Assistant Supervisor of Midwives—

Inspection of County Midwives... ..	304
Inspection of Independent Midwives	55

Cases visited—

Labours	22
Nursings	250
Antenatal	335
Postnatal... ..	79
Pupil Midwives... ..	9
Lectures to Pupils and Midwives	5

Details of County Midwives' Attendance at Cases.

LIVE-BIRTHS.		STILL-BIRTHS.		MIS-CARRIAGES.
With a Doctor.	Without a Doctor.	With a Doctor.	Without a Doctor.	
1279	2186	59	29	157

Notifications received (Central Midwives Board Rules)

Medical Aid	2183
Stillbirths	62
Laying out of the Dead	31
Source of Infection	9
Artificial Feeding	157

Nursing and Maternity Homes

Number on the Register at the end of 1946 ...	46
Number of inspections during 1946	91
Number of new Homes registered in 1946	7

B.**Home Helps**

During 1946 home helps have been provided in 164 homes.

Domestic helps were supplied in 22 cases.

Puerperal Pyrexia, etc.

39 cases of Puerperal Pyrexia were notified, and 10 of these cases were already in Hospital.

There were 3 cases of Puerperal Fever notified and one of these was removed to Hospital.

Consultants

In 45 cases the advice and help of a consultant have been obtained for difficulties in labour or any abnormality during the puerperium.

Ophthalmia

There have been 39 cases of inflammation of or discharge from the eyes on new-born babies. 28 of the cases were only slight. 7 of the cases were notified as Ophthalmia Neonatorum.

The following is a description of the slight cases:—

One eye affected	15
Both eyes affected	13

Severe cases:—

One eye affected	1
Both eyes affected	3

Three of the above cases were treated in Hospital and 5 attended by Health Visitors. All the cases made good recoveries.

Maternal Mortality (per 1,000 live and stillbirths).

The maternal mortality rate for 1946 was 2.24, being .49 for puerperal sepsis and 1.75 from other causes.

Maternity Hospitals and Homes

During 1946 there have been 1,172 mothers who, through the help of the County Maternity and Child Welfare Committee, have had their confinements in a Maternity Hospital or Home. (For confinements in Clatterbridge and West Park County General Hospitals, see pp. 77 and 96.

The confinements have taken place in the following Institutions:—

Ashton-under-Lyne District Infirmary	8
Chester City Hospital	349
Heswall Nursing Home	72
Glossop Maternity Home	2
Liverpool Maternity Hospital	60
Longton Cottage Hospital... ..	25
St. Mary's Hospital, Manchester	168
Sale War Memorial Hospital	49
Southfields, Bowdon	375
Victoria Park, Warrington	57
Widnes Maternity Home	7

Child Life Protection.

Number of Foster Parents on the Register, 1946 ... 33

Number of Children on the Register, 1946 77

4 children died during the year.

Ante-Natal and Post-Natal Clinics.

Hospital	Number of Expectant Mothers	Number of Post-Natal Cases
Ashton-under-Lyne Infirmary	122	122
Chester City Hospital	434	101
Clatterbridge County Hospital	344	34
Macclesfield West Park County Hosp.	306	135

Welfare Centre	Sessions	Ante-Natal Attendances	Average	Sessions	Post-Natal Attendances	Average
Congleton	23	441	19	12	82	7
Hoole	12	158	13	10	31	3
Runcorn	51	2081	40	11	38	3
Sale	26	737	28	12	31	3

During 1946 there were 1873 expectant mothers examined by their own doctors under the County Scheme.

Dental Report 1946.

Expectant mothers inspected	79
Expectant mothers selected	76
Expectant mothers treated... ..	75
Permanent teeth extracted	308
Permanent teeth filled	449
Upper dentures fitted	16
Lower dentures fitted... ..	15
Other operations	38
X-Rays	5

LIST OF INFANT WELFARE CENTRES, 1946.

Centre.	Frequency	Day	No of Sessions	No. Present	No. seen by Dr.	Average Att.
Adswood	1st and 3rd Mondays	Monday	24	844	319	35
Alderley Edge	Weekly	Friday	51	1952	399	38
Alsager	Fortnightly	Tuesday	27	1328	577	49
Andlem	1st and 3rd Tuesdays	Tuesday	24	474	126	19
Barnton	Fortnightly	2nd and 4th Wednesday	10	335	182	33
Bollington	Fortnightly	alt. Thurs. 1st and 3rd Wednesday	27	1166	404	44
Bowdon	Fortnightly	Thursday	26	512	298	19
Bramhall	Fortnightly	1st and 3rd Monday	23	809	204	35
Bredbury	Weekly a.m. & p.m.	Tuesday	47	2742	899	58
Cheadle	Weekly	Tuesday	38	2917	870	76
Cheadle Hulme	Fortnightly	Tuesday	26	1631	543	62
Congleton	Weekly	Monday	49	2224	955	45
Davenham	Monthly	1st Monday	11	336	177	30
Disley	Fortnightly	Tuesday	25	1041	319	41
Dukinfield	Twice weekly a.m. & p.m.	Wednesday & Thursday	102	5768	1423	56
Frodsham	Fortnightly	Thursday	27	1239	262	45
Grappenhall	Fortnightly	Monday	30	2135	316	71
Greasby	Fortnightly	Tuesday	21	546	159	28
Handforth	Fortnightly	2nd and 4th Monday	23	181	279	25
Hartford	Fortnightly	2nd and 4th Tuesday	5	117	73	23
Haslington	Fortnightly	Tuesday	25	1108	371	44
Hazel Grove	Weekly	Thursday	48	3168	494	66
Helsby	Fortnightly	Tuesday	25	1123	245	44
Heswall	Fortnightly	Monday	26	1542	217	59
High Lane	Fortnightly	Tuesday	26	762	341	29
Hollingsworth	Fortnightly	Thursday	25	925	179	37
Hoole	Weekly	Tuesday and 1st Thurs.	60	3099	847	51
Hoylake	Weekly	Thursday	51	2549	349	49
Irby	Fortnightly	Monday	23	1017	215	39
Kelsall	1st and 3rd Tuesdays	Tuesday	24	770	256	32
Lower Peover	Fortnightly	2nd and 4th Monday	6	158	87	26
Lymm	Weekly	Tuesday	47	1841	459	39
Malpas	Fortnightly	Monday	24	303	252	12
Marple	Weekly	Wednesday	52	2984	840	57
Marple Bridge	Fortnightly	2nd and 4th Thursday	24	933	378	38
Middlewich	Weekly	Monday	49	1288	1049	26
Mobberley	Fortnightly	Tuesday	27	589	400	21
Moulton	Monthly	3rd Wed.	12	294	177	24
Mow Cop	Fortnightly	1st and 3rd Wednesday	24	236	205	9
Nantwich	Weekly	Thursday	51	2315	463	45
Neston	Weekly	Thursday	50	2656	328	53
Northwich	Weekly	Thursday	51	2475	1055	48
(Parkfield)						
Northwich (Darland House)	Weekly	Tuesday	52	2811	1119	54

LIST OF INFANT WELFARE CENTRES, 1946—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Avera Att.
Over Peover ...	Fortnightly	1st and 3rd Monday	24	402	198	16
Partington ...	Fortnightly	Thursday	25	556	188	22
Poynton ...	Fortnightly	Thursday	25	1159	394	46
Romiley ..	Weekly	Thursday	50	1738	748	34
Runcorn ...	Weekly	Wednesday a.m. & p.m.	105	3567	1481	33
Sale ..	Twice weekly	Tuesday & Thursday 2nd week	110	7120	2871	64
Sandbach ...	Weekly	Tuesday	52	2346	1439	45
Saughall ...	Fortnightly	1st and 3rd Monday	15	455	193	30
Scholar Green ..	Fortnightly	2nd & 4th Wednesday	23	381	280	16
Shavington ...	Fortnightly	2nd and 4th Tuesday	9	173	48	19
Stockton Heath...	Fortnightly	Monday	26	1380	148	53
Sutton ..	Fortnightly	2nd and 4th Wednesday	22	421	188	19
Tarporley ...	Fortnightly	Thursday	26	675	205	25
Upton ..	Fortnightly	1st and 3rd Thursday	28	1209	409	43
Weaverham ...	Fortnightly	Tuesday	26	861	442	33
Wilmslow ...	Weekly	Thursday	51	2601	869	51
Winsford ...	Weekly	Friday	50	1529	805	30

Artificial Sunlight Treatment

The following table shows the attendances made at the various clinics by non-tuberculous patients:—

Clinic.	Patients at 1/1/46	Admitted during 1946	Discharged during 1946	Patients at 31/12/46	Attend- ances at Clinics
Hyde	1	2	1	2	14
Dukinfield	4	38	29	13	770
Marple Hosp.	—	5	2	3	99
Northwich (Victoria Infirm'y)	1	—	1	—	10
Sale	—	51	42	9	558
	6	96	75	27	1451

Orthopaedic Scheme

The Orthopaedic Scheme includes treatment for all orthopaedic conditions occurring in children under 5 years of age. During 1946 there were 2,889 attendances of 602 patients (non-tuberculous) at the Clinics, and 9 cases received institutional treatment.

The following table shows the attendances made at the various Orthopaedic Clinics (excluding those for Sunlight only).

Clinic.	Patients at 1/1/46	Admitted during 1946	Discharged during 1946	Patients at 31/12/46	Attend- ances at Clinics
Alderley Edge ..	64	29	27	66	265
Altrincham ..	17	22	14	25	176
Chester ..	5	6	4	7	23
Congleton ..	18	24	8	34	471
Crewe ..	52	22	24	50	126
Ellesmere Port ..	4	5	2	7	317
Hoylake ..	40	7	27	20	204
Hyde ..	5	3	4	4	58
Marple Hospital	—	2	1	1	45
New Ferry ..	3	—	1	2	354
Northwich Infirm.	2	—	2	—	5
„ (Parkfield)	22	20	13	29	95
Runcorn ..	95	41	60	76	421
Sale	12	34	3	43	188
Stockton Heath..	31	17	22	26	141
	370	232	212	390	2889

Institutional Treatment

43 children received institutional treatment during 1946—19 boys and 24 girls. Of these, 9 were orthopaedic cases, and 34 medical and surgical cases.

The following table shows the hospitals and clinics where treatment was carried out, and the conditions from which the children were suffering.

	M. & C. W. 1946	Children's Hospital, Heswall	Hospital for Children, Leasowe	Duchess of York Babies' Hospital, Manchester	Children's Orthopaedic Hospital Marple	Orthopaedic Hospital, Oswestry	Total
	Boys	1	3	14	..	1	19
	Girls	4	5	12	1	2	24
Orthopaedic	Bow Legs.. ..	..	1	..	..	..	1
	Cub Feet	..	1	..	..	..	3
	Hip (dislocation of)	..	3	..	..	..	3
	Sterno Mastoid ..	..	..	..	..	..	1
	Trigger Thumbs ..	..	..	..	..	1	1
Various Medical and Surgical	Anaemia	1	..	1	..	..	2
	Cleft Palate	..	..	1	..	..	1
	Convulsions	..	..	1	..	..	1
	Debility	3	2	..	..	..	5
	Gastro-Enteritis ..	..	..	..	..	..	1
	Haemorrhagic Disease	..	..	1	..	..	1
	Intussusception ..	..	..	1	..	..	1
	Marasmus	1	1	1	..	..	3
	Mental Defect	..	..	3	..	..	3
	Pneumonia	..	..	5	..	..	5
	Prematurity	..	..	3	..	..	3
	Prolapse of Rectum ..	..	..	1	..	..	1
	Pyloric Stenosis ..	..	..	6	..	..	6
	Pyrexia	..	..	1	..	..	1

Section VII.

Milk (Special Designations) Orders, 1936-41

At the time of this report there were 3,109 "Accredited" milk licences and 308 "Tuberculin Tested" milk licences in force in the County.

The number of applications received for licences to produce "Tuberculin Tested" milk has greatly increased and continues to do so, thus necessitating the allocation of a considerable amount of time to the important work of inspection of cowsheds and dairies, with a view to bringing them to the necessary structural standard. That the policy of concentrating on the bare essentials in this work of reconditioning has been a sound one, is shown by the encouraging increase in the number of licences actually issued.

A comparison of tests of the bacteriological quality of milk made at the farm and at the Creamery, or point of delivery, once again emphasizes the importance of both dairyman and farmer realizing their respective obligations under the Milk and Dairies Order, 1926, as to the cleanliness of churns. Each party has a definite responsibility in this matter, and each must accept that responsibility if the maximum keeping quality of the milk is to be obtained.

The efficiency of the licensed pasteurizing plants in the County, as shown by regular sampling, is high, the samples consistently passing the Phosphatase and 30 minute Methylene Blue tests. This is most satisfactory, as the very safety of a pasteurized milk, which is usually a bulked supply from many individual farms, depends entirely on the efficiency with which the plant is operated. There is no doubt that modern apparatus, with its multiplicity of automatic controls, is greatly conducive to consistent results, but the whole process from the reception of the milk to the cleaning and sterilization of the plant after a run, must be carried out intelligently. Thus the human element is still the greatest factor in the operation of the plant, and the need for constant inspection and regular sampling is as great as ever.

During the year, the Milk and Dairies Committee of the County Council revoked the "Accredited" milk licences of 2 Producers. In each case the conditions at the farm were generally unsatisfactory, and samples of milk had consistently failed to pass the prescribed tests for "Accredited" milk.

The co-operation between the County Staff and the District Sanitary Officers remains at the same high level, we on our part greatly appreciating the value of local knowledge so freely accorded.

The closest contact is maintained between my Department and the Divisional Inspector of the Ministry of Agriculture, Mr. William Tweed, with whom the most cordial relations exist.

Section VIII.-Food and Drugs Act, 1938.

The Chief Inspector of Weights and Measures (Mr. Stacey Hallard) has pleasure in reporting on the work done by officers of his Department in respect of the sampling of food and drugs exposed for sale within the administrative County of Cheshire. The area covered by this report includes the whole of Cheshire with the exception of the four County Boroughs and the Municipal Borough of Crewe.

During the year ended 31st December, 1946, a total of 2,099 samples of all types of food were obtained and submitted to the County Analyst for analysis as to their chemical composition; this figure is practically 200 higher than that for the previous twelve months.

For the sake of clarity it is advisable to deal with the samples in two parts, i.e., milks and samples other than milk.

Firstly, regarding milk samples—quite a number were taken whilst the milk was in course of transit between the producer and one or other of the larger Dairy Companies.

It is fairly well known that these Companies have their own laboratories and that they are continually taking routine samples from their suppliers in order to discover if the milk is watered; thus there is little chance of an offender carrying on his nefarious practice for very long without detection. The fact that I have a standing arrangement with these Dairy Companies whereby they notify me immediately they are suspicious of any particular supply, has proved of enormous advantage. Under such circumstances it is possible for a Sampling Officer to obtain an official sample and have it in the hands of the County Analyst within a very few hours of receiving a complaint from the Dairy Company. It is interesting to note that as a result of "information received" in this way a large number of producers were prosecuted and heavy penalties inflicted during the year.

On the general question of milk sampling (including those referred to above) officers of the Weights and Measures Department purchased from retailers in the street or otherwise a total of 1,275 samples of milk and submitted them to the County Analyst for analysis. Of these 134 or 10.6% were certified to be below the standard set up by the Sale of Milk Regulations in respect of the following:—

- 49 contained added water.
- 56 were deficient in fat.
- 29 were deficient in non-fatty solids.

The amount of extraneous water varied from a minimum of 1.7 per cent. to a maximum of 54.5 per cent.

In the majority of cases covering deficiencies in fat or non-fat, it became clear upon investigation that the trouble was due to some abnormality in the cows, but in six instances the serious deficiency in fat was obviously due to mishandling (probably failure to keep the milk stirred) and as a result legal proceedings were instituted against the sellers.

A brief outline of some of the outstanding prosecutions taken for selling milk containing added water follows.

The first case concerns a farmer who daily sent four churns of milk to a Dairy Company. On a certain Saturday morning, unknown to the farmer, the lorry was intercepted some miles from the farm and a sample taken out of each of four churns. Then on the following day (Sunday) the Inspector appeared in the farm-yard at the moment when the milk was being collected by the lorry driver.

The results of analysis of these samples showed that, on the Saturday morning, two of the churns contained, respectively, 39 per cent. and 13.3 per cent. of extraneous water and of the four sampled on the Sunday morning one contained 9 per cent. of added water and another actually contained more added water than milk,—in other words it was adulterated with 54.5 per cent. of extraneous water! Summonses were issued in respect of all these offences and the farmer was fined £25 plus costs, on each charge—a total penalty of £106. 10s. 6d.

Similarly another farmer daily consigned eight churns of milk to a Creamery—an Inspector took a sample from each churn in course of transit between the farm and the Creamery, and all were certified as containing extraneous water; the amounts varied from 7.6 per cent. to as high as 36.9 per cent.—moreover one sample was deficient in fat to the extent of 24.1 per cent. The trader was prosecuted and in due course paid over £100 in fines and costs.

In another case the Inspector followed a lorry belonging to a Dairy Company until it arrived at the milk stand at a farm gate where two churns of milk awaited collection. The Inspector sent for the farmer in order that he (the farmer) could witness the taking of the samples but when the farmer reached the stand and realized that samples were to be taken he tried his best to tip the churns over. When the Inspector prevented this manœuvre the farmer picked up a churn lid and held it over the Inspector's head, threatening to knock him off the stand. However, following the dispatch of the Inspector's Assistant to 'phone the police, the farmer became

nore subdued and allowed a sample to be taken. Needless to say the County Analyst subsequently found added water in the milk and the farmer was prosecuted for that offence as well as on account of the obstruction. At the hearing the farmer continued his policy of obstruction and produced an Analyst's Certificate showing that the portions of the samples given to him by the Inspector were "genuine." The Magistrates had no alternative but to adjourn the case and order the control samples retained by the Inspector to be sent to the Government Chemist. Ultimately it was found that the analysis of the Government Chemist agreed with our County Analyst and it thus became clear that the farmer had tampered with the bottles given to him before he had sent them to his own analyst. No doubt taking this into account the Justices fined the farmer £50 and £18 costs.

These are just three instances out of the 42 prosecutions taken against traders for selling milk to which water had been added. In addition to the above, penalties totalling over £150 were inflicted in 18 other cases in which the milk failed to reach the standard either on account of added water or abstraction of fat. All other cases of a less serious nature were dealt with by caution or otherwise.

Regarding the samples other than milks, a total of 824 were obtained from shops, markets, etc., the vast majority of which were informal samples, i.e., the seller was unaware that the article purchased was to be sent for analysis. Out of these the County Analyst certified that 18 were not up to the recognised or legal Standard of quality.

A brief description of these samples, with the analysis in parenthesis, is given below.

Iodised Throat Tablets (Devoid of Iodine). Manufacturer Cautioned.

Cough Mixture (Contained 0.10% of chloroform instead of 0.44% as declared on label). Manufacturer Cautioned.

Vinegar (Non-brewed vinegar deficient in acetic acid to the extent of 20%). Retailer Cautioned.

Cough Mixture (Contained 0.16% of chloroform instead of 0.44% as declared on label). Manufacturer Cautioned.

Sausage (160 parts per million of undeclared sulphur dioxide). When a formal sample was obtained with a view to prosecution it was found that the Statutory Notice was displayed.

Indian Brandy (Contained 2.5% concentrated chloroform water instead of 5% as stated on label). Manufacturer Cautioned.

Sausage (Contained 228 parts per million of undeclared sulphur dioxide preservative). Retailer Cautioned.

Sausage (Contained 250 parts per million of undeclared sulphur dioxide preservative). Declaratory Notice was displayed in a very inconspicuous position and therefore was not seen at time of purchase of sample. Seller was Cautioned.

Glycerine (Contaminated with 0.05% of Iodine). Contamination caused by seller using cork that had previously been in contact with Iodine. Retailer Cautioned.

Grape Fruit Squash (25% deficient in sugar). Particulars sent to Ministry of Food.

Semolina (Infested with weevils. Unfit for human consumption). Particulars sent to Sanitary Authorities in order that stock could be condemned.

Whisky (7.7% excess water). Seller Fined £10 and 10/6d. costs. This sample and the following five were all purchased at public houses during the period immediately preceding Christmas.

Whisky (9.28% excess water). Seller Fined £5 and 10/6d. costs.

Rum (17.5% excess water). Seller Fined £10 and 10/6d. costs.

Whisky (7.45% excess water). Seller Fined £5 and 10/6. costs.

Rum (1% excess water). Slight adulteration. No action. Another sample to be obtained on a suitable occasion.

Rum (17.04% excess water). Seller Fined £5 and 10/6d. costs.

Sugar (Sugar adulterated with 5% of Foreign Mineral Matter of which 4.5% is Sodium Chloride). This sample submitted by a Headmaster of a County School was alleged to have been tampered with whilst in the school store.

In concluding this report a note of regret must be introduced when stating that following a steady fall in the percentage of adulteration over the last four years, the figure for 1946 shows a slight rise. Comparative figures since pre-war are as follows:—

<i>Year.</i>	<i>Percentage of samples Certified as non-standard.</i>
1938	5.4 per cent.
1939	6.5 per cent.
1940	9.0 per cent.
1941	11.5 per cent.
1942	11.5 per cent.
1943	8.3 per cent.
1944	8.2 per cent.
1945	5.7 per cent.
1946	7.2 per cent.

Section IX. Mental Deficiency

Particulars of Mental Defectives as on 31st December

Number of Cases "Subject to be dealt with":—

1. Under "Order":—

		1945			1946		
		M.	F.	T.	M.	F.	T.
(a) (1) In Institutions (excluding cases on Licence)—							
Under 16 years of age ..		30	23	53	25	17	42
Aged 16 years and over ..		174	164	338	199	165	364
(2) On Licence from Institutions—							
Under 16 years of age ..		—	—	—	—	—	—
Aged 16 years and over ..		15	19	34	15	25	40
(b) (1) Under Guardianship (excluding cases on Licence)—							
Under 16 years of age ..		—	—	—	—	—	—
Aged 16 years and over ..		1	—	1	1	—	1
(2) On Licence from Guardianship—							
Under 16 years of age ..		—	—	—	—	—	—
Aged 16 years and over ..		—	—	—	—	—	—
2. In "Places of Safety":—							
Under 16 years of age ..		—	—	—	1	—	1
Aged 16 years and over ..		—	—	—	—	—	—
3. Under Statutory Supervision ..		535	480	1015	568	501	1069
4. Action not yet taken under any of the above headings (in receipt of Poor Law Relief, domiciliary)		35	40	75	36	41	77

Number of Cases who may become "Subject to be dealt with":—

(1) In Institutions or under Guardianship—dealt with under Sec. 3:—

(a) In regard to whom the Local Authority contributes under its permissive powers	—	1	1	—	1	1
(b) Maintained wholly by parents, relatives or others	28	9	37	27	9	37

(2) Reported to the Local Authority from any reliable source, but as to whom no action has been taken

	—	—	—	—	—	—
--	---	---	---	---	---	---

(3) Under Voluntary Supervision

	—	—	—	—	—	—
--	---	---	---	---	---	---

Ascertainment

The methods of ascertainment are the same as in previous years. Every effort is made to obtain particulars of all mental defectives in the County. Health Visitors, District Nurses, Relieving Officers, Head Teachers, parents and various officials report cases, and all persons whose work makes defectives known to them are well aware of the Authority to which information should be supplied.

**Provision of Institutional Accommodation (Excluding Cases
on Licence) at 31st December**

	M.	1945			M.	1946		T.
		F.	T.			F.		
<i>Institution for Defectives provided by the State—</i>								
Rampton State Institution, Retford	—	1	1		—	1		1
<i>Institution provided for Defectives by Cheshire Joint Board—</i>								
Cranage Hall	89	119	208		93	118		211
<i>Institution provided for Defectives by Cheshire County Council—</i>								
Mary Dendy Homes, Alderley Edge.. ..	54	29	83		69	26		95
<i>Institution provided for Defectives by other Local Authority—</i>								
Calderstones (Lancashire Mental Hospitals Board)	3	—	3		3	—		3
<i>Other Certified Institutions for Defectives—</i>								
Besford Court, Worcester	—	—	—		—	—		—
Brentry Colony, Bristol	5	—	5		5	—		5
Dovecot, Knotty Ash, Liverpool	—	1	1		—	1		1
Gillibrand Hall, Chorley	—	2	2		—	2		2
Hillside, Buntingford	1	—	1		1	—		1
Lisieux Hall, Chorley	1	—	1		1	—		1
Pontville R.C. Inst., Liverpool	—	—	—		—	—		—
Princess Christian's Farm Colony, Hilden- borough, Kent	—	1	1		—	1		1
Royal Albert Institution, Lancaster	4	5	9		4	6		10
Royal Earlswood Institution, Redhill.. ..	1	—	1		1	—		1
St. Mary's Home, Alton	—	1	1		—	1		1
St. Raphael's Colony, Brentford	1	—	1		1	—		1
Stoke Park Colony, Stapleton, Bristol ..	10	10	20		10	8		18
Swinton Home, Manchester	—	2	2		—	2		2
Totterdown Hall, Weston-super-Mare	—	—	—		—	—		—
Whittington Hall, Chesterfield	—	2	2		—	2		2
<i>Certified Public Assistance Institutions—</i>								
Arclid House, Sandbach (Cheshire C.C.) ..	33	8	41		33	8		41
The Lodge, Caersws (Montgomeryshire C.C.)	—	1	1		—	2		2
Seafeld House, Seaforth (Lancashire C.C.)..	2	—	2		2	—		2
Ashton House, Birkenhead (Birkenhead C.B.)	—	3	3		—	3		3
Total	204	185	389		223	181		404

For detailed information on the Mary Dendy Homes see Section XI.

Guardianship

At the 31st December, 1946, there was 1 case under Guardianship, as compared with 1 at the end of 1945. All necessary care is exercised in the approval of Guardians, and in suitable cases the provisions of Section 30 (e) of the 1913 Act have been utilised.

Supervision

Statutory supervision is carried out by the County Health Visitors, who visit each case several times during the year and report quarterly on their visits. There were 1069 cases so supervised at 31.12.46, compared with 1015 at 31.12.45.

Occupation Centres and Home Training

There are no occupation centres in the County, which is mainly rural in character.

No provision has been made for Home Training.

Licence, Discharge and After-Care

At the end of 1946 there were 40 cases on licence from Institutions and none on licence from guardianship, as compared with 34 and none at 31.12.45. The care exercised in the selection of cases and regularity of visitation has resulted in the success of the Council's policy under this heading.

Five cases who had been on licence from an Institution were discharged during the year under review.

Section X.-Welfare of the Blind

General

The requirements of the Blind Persons Acts, 1920-38, are met by the Council in its revised Scheme for the Welfare of Blind Persons, dated May, 1931. The provisions of this Scheme are executed, subject to the general administrative supervision of the Blind Persons Inter-Sub-Committee of the Council, by the Blind Welfare Societies at Chester, Ashton-under-Lyne and Macclesfield, which receive annual grants in accordance with the Scheme of the Minister of Health under the Local Government Act, 1929. The closest co-operation is maintained with these Societies, and the various services rendered by them continue to be entirely satisfactory.

Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants are examined by the County Oculists. Those who wish may be examined a second time under the Medical Referee Service—conducted jointly with the Northern Counties Association—by independent Medical Referees.

Statistics.

Number of Registered Blind Persons in the County at
31st March

				1946
Under 5 years	..	..	..	1
5—16 years	..	..	..	22
16—21 years	..	..	..	8
21—40 years	..	..	..	105
40—50 years	..	..	..	104
50—65 years	..	..	..	241
65—70 years	..	..	..	132
70 years and over	..	..	..	522
Unknown age	..	..	..	—
				—
Total	..	..	..	1135
				—

Registered Blind Persons in County, aged over 16 years, employed,
or otherwise, at 31st March

				1946
Employed	{	in Workshops & Workrooms	..	18
		as Home workers	..	24
		variously		54
Unemployed	..	..	..	1010
Undergoing Training	..	..	..	6

Workshop Employees

Annual grants were continued at a fixed rate per head to recognised Workshops for Cheshire employees. A "minimum wage" principle has been adopted for certain workers, their income being made up to a fixed amount. On this principle there were 2 male employees at Henshaw's at the end of 1946, while on the fixed rate system there were 6 males Liverpool, and 2 females at Henshaw's.

Home Workers

The three voluntary societies arrange for the employment at home of those capable of it. Augmentation of 25/- weekly was given by the Council to all County approved Workers, who numbered 34 at the end of 1946.

Homes Residents

Annual grants in accordance with the Local Government Act Scheme are paid to several organisations, subject to the same services continuing to be rendered on behalf of Cheshire residents in Homes for the Blind; additional capitation grants of £13 a year are made for new entrants, whose maintenance charges are also paid by the Committee if necessary. At the end of 1946, there were 6 Cheshire residents being so maintained in the Homes of the Manchester and Salford Society and 8 in the Homes of Henshaw's Institution.

National Library for the Blind

Grant at the rate of £50 a year was made in 1946 to the National Library for the Blind on behalf of each of 3 Cheshire Home Workers who were Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

Other Services

The usual annual grants were continued in 1946 to the National Institute for the Blind and the Northern Counties Association for their respective national and regional services.

Wireless Certificates

110 Certificates entitling the recipients to a free wireless licence were issued in 1946 to applicants on the register.

Necessitous Blind

In its Scheme under the Local Government Act, 1929, the Council made a declaration that all domiciliary assistance to necessitous blind persons should be henceforth

provided by virtue of the Blind Persons Act and not as Poor Relief. The Council's Scheme provides that the weekly income of every adult registered blind person be increased where necessary to 40/-, and that of a married blind couple to 75/-, and that such persons be eligible for extra grant on account of dependants.

In 1946 grants were made by the Blind Persons Inter-Sub-Committee in 139 cases, and withheld in 1. Grants reported as ceased, owing to death of recipient or otherwise, numbered 192.

At the end of the calendar year 1946, there were 726 weekly grants so made to blind persons in the County.

At the end of the financial year 1946-47, there were 722 weekly grants so made to blind persons in the County.

Section XI.-County Institutions

REPORT OF THE MEDICAL SUPERINTENDENT OF CLATTERBRIDGE COUNTY HOSPITAL.

Work done by the Hospital in 1946 has been of the usual character but has shown considerable all round increase in amount. Details are given in the Statistical Appendix and in the reports on their own departments kindly provided for me by the visiting medical staff. I must especially emphasise Mr. Datnow's remarks on the need for additional accommodation. Additional accommodation was asked for and approved in December, 1944, but work on it has not yet been begun. The Maternity Ward has usually been overcrowded throughout the year, sometimes to a serious degree. This accounts for the rise in the number of cases of puerperal pyrexia this year; fortunately none of these have been of a dangerous nature.

Similar conditions of overcrowding have applied in most other parts of the hospital at times during the year. Matters were at their worst a week or two before Christmas. Up to date three huts have been occupied, two of them in January, 1946, with "chronic sick" patients; the other in November with acute medical cases. It is evident however that further use of the huts will not be practicable until additional facilities (X-ray and theatre) are available and until more staff can be engaged. This will, in turn, require adaptation of several huts for staff quarters. The Ministry of Health have been informed of these needs. By the end of the year considerable work had been done towards providing theatre and X-ray facilities, but nothing had been done, or sanctioned towards more staff accommodation. It would appear that the problem of supplying hot water and heating to these huts is proving complicated.

Many parts of the hospital are now in need of re-decoration; owing to the crowded state of the hospital this is being carried out as opportunity offers under some difficulties.

Even more than in previous years the problem of accommodating chronic sick patients has been a difficult one. It is impossible wholly to exclude chronic sick patients since they usually reach us when acutely ill; and even from the point of view of the nurses' training it would not be entirely desirable to try to do so. On the other hand to accept all chronic sick patients whose admission is requested would involve most grievous waste of accommodation and expensive fixed equipment suitable only for acutely ill persons. In

view of the clamant need for chronic sick accommodation, it has been decided to set aside two 250' huts for this purpose. The Ministry of Health have been asked to adapt these huts for this purpose. It will be necessary to obtain staff for them. I expect that this staff will consist largely of nursing attendants with, at most, three or four trained nurses to supervise them. The total number which these huts could accommodate does not exceed 100. It is necessary to add that the demand for chronic sick accommodation will certainly greatly exceed this provision.

The problem of Pathological staff has again engaged much attention throughout the year. The Birkenhead Corporation decided to discontinue the existing arrangements, though it had been hoped that they might have been extended. Formal notice of termination of this arrangement however was not received until the beginning of 1947. The need for extension of the service has long been so evident that some steps have already been taken, including the appointment, on the County staff of the Hospital, of a Laboratory technician.

The Canteen, run successfully throughout the War years by Mrs. Gorst and her helpers, was taken over by the Hospital at the beginning of November. It is intended that this Canteen, besides catering for hospital workers, shall also be of benefit to the many visitors travelling long distances to the hospital, and to the Out-patient Department.

I take this opportunity of recording our indebtedness to Mrs. Gorst for the very fine effort made under the exceptionally trying conditions of wartime. In the early days especially, when the Canteen was situated just beyond the hatted hospital, the friends of sick and wounded soldiers, travelling from all parts of Britain, found it a most welcome institution. Later on, when it had to be moved into the grounds of the County Hospital proper, our own staff, both nursing and non-resident, were glad to make use of it.

Nursing Staff

Serious shortage has had to be endured throughout the year in all grades. This shortage is largely due to the improved conditions for nurses which the Rushcliffe Committee recommended. We have done our best to carry out these recommendations and there is now only a little more to be done at this hospital to carry them out completely. Our student nurses therefore work now for 48 hours per week on day duty, and have a holiday of four weeks annually. At the same time the demands of modern methods of treatment have become more and more exacting, so that a given number of

patients now require more nurses for their care than ten or even five years ago. (Authoritative guidance for hospital authorities on ward staffing has been given by the King Edward Hospital Fund for London, who appointed a committee to enquire and report during the year on the matter. The report supplies evidence for the view that the proportions of nurses to beds provided should be about 90 per 100.) Finally, as the figures in the statistical appendix show, more patients are receiving treatment in hospital. The shortage of staff is therefore a relative one. Considerably more candidates for training came forward this year than ever before. In fact, there is now an urgent need for additional accommodation for our nursing staff. The hospital also employs an increasing number of male student nurses.

Sister M. Fenton, the Midwifery Tutor, resigned at the end of March; her place was taken at the beginning of October, 1946, by Sister Murphy.

Medical Staff

During the year the establishment has been increased by an additional Visiting Surgeon and Visiting Physician. Mr. M. Silverstone and Mr. J. Moroney were appointed to the existing surgical vacancy and to the new surgical position, and Dr. R. R. Hughes to the new medical position.

Dr. S. Beatty, Deputy Medical Superintendent, was seconded for duty at West Park Hospital, Macclesfield, pending the appointment of a Medical Superintendent there. She was away from Clatterbridge for just over six months.

The Resident Medical Staff has been very fully employed throughout the year. It seems probable that in the near future a further increase of the establishment will be required here. This also will entail additional quarters being found as the present flat has now no more vacant rooms.

As in previous years, various specialists have been called in for special cases as occasion arose:—

Mr. Alan Kerr—for neurosurgical cases

Miss I. Forshall—for children's surgery

Mr. F. Ronald Edwards—for thoracic surgery

Dr. R. Stopford Taylor—for skin diseases.

Other Staff

I regret to record the death on 12th June, 1946, of Miss H. R. Tilston, who had been employed for 30 years at this hospital, and for the last 11 years as Steward.

The total number of staff employed at the Hospital who are not doctors or nurses is 253.

Training School

Once again we have to thank Dr. J. B. Yeoman and Sister Sill for their successful efforts in this department. Further details of the school are:—

1. Number of Student Nurses commencing in year ending December, 1946 86
Of these 13 were affiliates.
14 Nurses discontinued training before it was completed.
2. Number of Pupil Nurses commencing in year ending December, 1946 14
3. Number of Student Nurses who passed Preliminary Examination 9
4. Number of Student Nurses who sat Preliminary Examination 9
Two Male Nurses also sat and passed.
5. Number of Student Nurses who sat Final State Examination 19
6. Number of Student Nurses who passed Final State Examination 17
7. 5 Pupil Midwives entered and passed Part 1 of the Midwifery Examination.

Prize Winners—

Medallists.

3rd year—Nurse Middleton.

2nd year—Nurse Gordon.

1st year—Nurse Todd.

Book Prizes.

3rd year—Nurse Williams.

2nd year—Nurse Burrell.

1st year—Nurse Sherlock.

In conclusion, I wish to express our thanks to the Hon. Librarian, Miss Field, and her devoted helpers who have again carried out a most valuable piece of work to the Hospital, and those whom it seeks to serve, in a most kindly and unobtrusive manner.

Statistics relating to the year ending 31st December, 1946

IN-PATIENTS

TABLE 1 (a)

1. Total number of admissions (including infants born in hospital) ——— ——— ——— ——— ——— ———	5895
2. Total number of women confined in Hospital ——— ——— ——— ——— ——— ———	888
3. Number of Live Births (including 18 twins) ——— ——— ——— ——— ——— ———	886
4. Number of Still Births ——— ——— ——— ——— ——— ———	20
5. Number of Deaths among the newly-born (i.e. under four weeks of age.) (This figure relates only to children born in Hospital) ——— ——— ——— ——— ——— ———	38
6. Total number of Deaths among children under one year (including those given under 5) ——— ——— ——— ——— ——— ———	79
7. Total number of Maternal Deaths among women admitted to Hospital for confinement ——— ——— ——— ——— ——— ———	—
8. Total number of Deaths ——— ——— ——— ——— ——— ———	499
9. Total number of discharges (including infants born in Hospital) ——— ——— ——— ——— ——— ———	5354
10. Duration of stay of patients, including (8) and (9)	
(a) Under four weeks ——— ——— ——— ——— ——— ———	4280
(b) Four weeks and under thirteen weeks ——— ——— ——— ——— ——— ———	1407
(c) Thirteen weeks or more ——— ——— ——— ——— ——— ———	166
11. Number of beds occupied (excluding cots in Maternity Ward):—	
(a) Average during the year ——— ——— ——— ——— ——— ———	376
(b) Highest, on 21/11/46 ——— ——— ——— ——— ——— ———	466
(c) Lowest, on 16/4/46 ——— ——— ——— ——— ——— ———	279

TABLE 1 (b).

TOTAL NUMBER OF NEW CASES.

Number of Admissions including births ——— ——— ——— ——— ——— ———	1946	5895
Corresponding period ——— ——— ——— ——— ——— ———	1945	4930
Number of discharges ——— ——— ——— ——— ——— ———	1946	5354
Corresponding period ——— ——— ——— ——— ——— ———	1945	4537
Number of deaths ——— ——— ——— ——— ——— ———	1946	499
Corresponding period ——— ——— ——— ——— ——— ———	1945	388
Number of Live Births ——— ——— ——— ——— ——— ———	1946	886
Corresponding period ——— ——— ——— ——— ——— ———	1945	658
Number of Still Births ——— ——— ——— ——— ——— ———	1946	20
Corresponding period ——— ——— ——— ——— ——— ———	1945	38
Number of patients in hospital ——— ——— ——— ——— ——— ———	1946	358
Corresponding period ——— ——— ——— ——— ——— ———	1945	294

TABLE 1 (c).

1. Number of Deaths within 24 hours of admission ——— ——— ——— ——— ——— ———	48
2. Number of Deaths of patients over 70 years ——— ——— ——— ——— ——— ———	148

TABLE 2

CLASSIFICATION OF IN-PATIENTS WHO WERE DISCHARGED OR WHO DIED IN THE YEAR ENDING 31st DECEMBER, 1946

						Children under 16		Men & Women.	
						Dis- charged	Died	Dis- charged	Died
A.	Acute Infectious Disease	..	..	..	..	3	—	7	1
B.	Influenza	..	..	..	..	2	—	5	—
C.	Tuberculosis								
	(1) Pulmonary	..	..	..	..	2	1	46	16
	(2) Non-Pulmonary	..	..	..	..	10	—	10	3
D.	Malignant Disease	..	..	..	..	1	1	109	112
E.	Rheumatism.								
	(1) Acute Rheumatism (Rheumatic Fever) together with sub-acute Rheumatism and Chorea	..	..	..	..	16	—	15	1
	(2) Non-articular manifestations of so-called Rheumatism (Muscular Rheumatism, Fibrositis, Lumbago and Sciatica)	..	..	..	..	—	—	19	—
	(3) Chronic Arthritis	..	..	..	..	1	—	27	2
F.	Venereal Disease	..	..	..	..	—	1	2	1
G.	Puerperal Fever								
	(1) Women confined in Hospital	..			..	—	—	—	—
	(2) Other cases	..	..	..	..	—	—	—	—
H.	Puerperal Pyrexia	..	..	..	..	—	—	19	—
I.	Other Diseases and Accidents connected with Pregnancy and Child-Birth	..			..	—	—	364	—
J.	Mental Diseases (1) Senile Dementia	..			..	—	—	1	1
	(2) Other	..	..	..	..	—	—	22	—
K.	Senile Decay	..	..	..	..	—	—	8	4
L.	Accidental Injury and Violence	..	..	..	..	70	1	228	27
<i>In respect of the cases not included above—</i>									
M.	Disease of the Nervous System and Sense Organs	..	..	..	..	75	11	129	48
N.	Disease of the Respiratory System	..	..	..	..	76	6	215	24
O.	Disease of the Circulatory System	..	..	..	..	7	4	236	89
P.	Disease of the Digestive System	..	..	..	..	321	21	761	44
Q.	Disease of the Genito-urinary System	..	..	..	..	47	—	320	30
R.	Disease of the Skin	..	..	..	..	30	1	99	4
S.	Other Diseases	..	..	..	..	64	21	284	7
T.	Mothers and Infants discharged from Maternity Wards and not included in above figures	..	..	..	..	855	17	848	—
U.	Persons not falling under any of the above headings	..	..	..	..	—	—	—	—
Totals						1580	85	3774	414

TABLE 3.

OPERATING UNDER GENERAL OR SPINAL ANAESTHETIC

Abdominal.

Gastrectomy	11
Gastro Enterostomy	6
Gastrostomy	2
Operations for perforated peptic Ulcer	27
Rammstedt's Operation	3
Intestinal anastomosis	4
Enterostomy	2
Caecostomy and Colostomy	33
Resection of small intestine	1
Resection of large intestine	7
Paul Mikulicz operation	2
Closure of Colostomy	5
Operation for Appendicitis	260
Operations for strangulated Hernia	25
Other operations for Hernia	75
Operation for intussusception	3
Cholecystectomy	34
Other operations on biliary passages	5
Subphrenic Abscess	5
Abdomino-perineal excision of rectum	4
Operations for Haemorrhoids	21
Sigmoidoscopy	2
Other operations on Rectum	8
Lumbar sympathectomy	1
Laparotomy	28

Genito-Urinary.

Nephrectomy	2
Operations for stone	6
Other operations on Kidney	3
Open Prostatectomy	24
Suprapubic cystostomy	10
Open removal of papilloma, operations on urethra	21
Circumcision	42
Orchidectomy	2
Hydrocele	4
Cystoscopy	40
Transurethral diathermy	11
Others	5

Gynaecological.

Oophorectomy	7
Operation for ectopic gestation	5
Caesarean section	36
Hysterectomy	22
Myomectomy	2
Ventral fixation	1
Evacuation of Uterus	18
Insertion of Radium	23
Dilatation and curettage	54
Perineorrhaphy and other repair operations	25
Others	42

Ophthalmic.

Enucleation of Eyeball	1
Cataract Operation	10
Operations on ocular muscles	13
Other ophthalmic operations	7

Ear, Nose and Throat.

Submucous resection nasal septum	8
Removal of nasal polypi	9
Operations on accessory air sinuses	21
Tonsillectomy and/or Adenectomy	150
Oesophagoscopy	3
Mastoidectomy	16
Others	5

Orthopaedics and Accidents.

Operations for Compound Fractures	5
Removal of foreign bodies	7
Debridement and/or wound excision	17
Operations for osteomyelitis	10
Insertion of Smith Petersen Nail	6
Removal of Nail	5
Other operations for simple fractures	5
Osteotomy	6
Bone Grafting	1
Arthrodesis	4
Arthroplasty	2
Meniscectomy	8
Kellar's Operation	7
Operations on tendons	14
Operations on Nerves	2
Major Amputations	8
Minor Amputations	6
Manipulation and/or Application of Plaster	51
Others	28

Miscellaneous.

Radical Excision of Breast	4
Other Operations on the Breast	6
Thyroidectomy	6
Excision of Cervical Glands	4
Incision and/or Curettage of T.B. Glands	17
Curettage of Other Sinuses	5
Varicose Veins	29
Pilonidal Cysts	2
Biopsy	12
Skin Graft	14
Carbuncle	2
Drainage of Abscesses	72
Burns	9
Operations on Phrenic Nerve	4
Thoracoscopy	1
Bronchoscopy	4
Thoracoplasty	2
Operations for Empyema	2
Laminectomy	1
Tracheotomy	1
Excision of Bronchial Cyst	1
Meningocele	1
Operation for fracture of skull	1
Operations on salivary glands	3
Miscellaneous minor operations	36

TABLE 4.

MATERNITY DEPARTMENT.

Ante-Natal Clinic.

Total number of new patients	344
Total number of visits	2071
Average attendance per week	40
Average attendance per patient	6
Deliveries from Clatterbridge Ante Natal Clinic	263
Deliveries from Ellesmere Port Ante Natal Clinic	269
Deliveries from New Ferry Ante Natal Clinic	248
Deliveries admitted as Emergencies	94
Deliveries from Other Sources	14

Maternity Ward.

Total number of deliveries	888
" " primiparae	425
" " multiparae	463
" " live births	886
" " still births	20

Particulars of Still Births.

Cause.	Total
Unknown	3
Premature	1
Breech	1
Velamentous placenta	1
Foetal Abnormality	3
Prolapsed Cord	3
Ante Partum Haemorrhage	8

Number of normal deliveries	768
Number of instrumental deliveries	57
Number of Caesarean Sections	36
Number of Breech Deliveries	28

Perineal Repairs.

Episiotomies	63
2nd degree tears	52
1st degree tears	106

Inductions.

Medicinal	16
Instrumental	21

Maternal Deaths. None*Neonatal Deaths.*

Premature	23
Foetal abnormality	5
Cases of Atelectasis plus Respiratory	6
Infection	—
Intra-cranial damage	3
Ict. gravis neonatorum	1

Complications.

Toxaemia	57
Ante-partum haemorrhage	20
Puerperal pyrexias	31
Ophthalmia Neonatorum	4
Prematures	75
Twin Births	18
Foetal abnormality	11
Pemphigus (unspecified mild cases only)	2
<i>Breast Fed Infants</i>	740

Post Natal Clinic.

Number of Attendances	35
-----------------------	----

TABLE 5 (a)

OUT-PATIENT DEPARTMENT

(a) Attendances.	
General	3274
Ophthalmic	248
Orthopaedic	956
Ear, Nose and Throat	568
Artificial Pneumothorax	1409
Medical	1251
Gynaecological	175
	7881

(b) Total number of new cases	2059
-------------------------------	------

TABLE 5 (b).

PHYSIOTHERAPY DEPARTMENT.

(a) Ward Cases	
Inpatients treated	856
Treatments given	6356
(b) Outpatients	984
Treatments given	5671

TABLE 6.

X-RAY DEPARTMENT.

Bone work	1884
Renal	495
Chests	3291
Gall Bladders	194
Barium Meals and Enemas	463
Pregnancies	253
	6580
Approximate number of films	46000
Approximate number of E.C.G's.	600

TABLE 7.

RETURN OF WORK DONE AT BIRKENHEAD LABORATORY.

Biochemistry.

Blood Urea	—	—	1123	Urine diastase	—	—	10
N.P.N.	—	—	34	Urine lead	—	—	1
Sugar	—	—	460	Urine urea Conc. tests	—	—	87
Van Den Bergh	—	—	71	Faeces occult blood	—	—	778
Ict. Index	—	—	5	Faeces Fats	—	—	6
Cholesterol	—	—	41	Fract. Test Meals	—	—	394
Calcium	—	—	2	C.S.F. Coll. Gold	—	—	11
Plas. Prot.	—	—	11	Stone Analysis	—	—	2
Serum Alb. and Glob.	—	—	11				
Alk. Phosph.	—	—	2				
Acid Phosph.	—	—	41				
Plasma Bromide	—	—	2				
Vit. C. Deficiency	—	—	6				
Phosphorus	—	—	2				
Prothrombin	—	—	3				
			1814				1289

Total Biochemistry — 3103.

Haematology and Pathology.

Blood Count	—	—	3253	Sections	—	—	443
Blood Diff.	—	—	368				
Film	—	—	1782				
Malaria	—	—	8				
Platelets	—	—	7				
Reticulocytes	—	—	20				
Fragility	—	—	12				
Sedimentation	—	—	540				
Coag. Time	—	—	19				
Bleeding Time	—	—	23				
Compatibility	—	—	18				
Grouping	—	—	332				
			6382				

Total Haematology and Pathology — 6825.

Bacteriology.

<i>Bacteriology.</i>	+	—	Total			
Diphtheria Swabs	3	4097	4100	General Urine	2484	
Sputa	62	860	922	Pus	314	
Widal	10	35	45	Faeces	469	
Wasserman Blood			963	C.S.F.	173	
Wasserman C.S.F.			94	Fluid	96	
V.D/G.			147	Bl. Cultures	41	
Sterility Tests			14	Sputa	2	
Special Tests			9	Haem. Strep.	56	
Milk and Water			2	Vincent	1	
Diff. Film			1	Pen. Sens.	6	
Paul Bunnell			2	Vaccine	5	
			6299			3647

Total Bacteriology — 9946.

REPORT BY CONSULTING SURGEON

The past year has seen an innovation in the election of two Consulting Surgeons to the hospital. These conduct a Consulting Out-patient session as well as ward visits and an operating session.

The majority of the emergency surgery is still being done by Mr. David Wilkie and the senior residents under his jurisdiction.

All the surgical cases admitted to the surgical wards, however, are under the direct care of the visiting staff who treat and advise on them.

The work of the Department has increased, partly due to the holding of two Out-patient sessions, although these have not yet reached their maximum usefulness. The Doctors in the immediate neighbourhood, however, have begun to make more use of them.

A further surgical ward has been opened. This allows for more adequate spacing in the male surgical ward, which was hitherto often overcrowded, and copes with the increased number of patients.

It is felt that the present need is for more nursing staff in the surgical wards to cope with the large number of old and ill patients that are often in the ward at one time, and in the staffing of these wards this should be borne in mind.

REPORT BY THE CONSULTING GYNAECOLOGIST AND OBSTETRICIAN

The work in obstetrics and gynaecology for the year 1946 has progressed satisfactorily.

The trainees in the Maternity Ward were handicapped somewhat by the temporary absence of the Sister Tutor. All the nurses seem to have passed their examinations.

There is still a great need for a modern premature babies' unit.

The Maternity Ward is still very over-crowded and extra accommodation is still very urgently needed. It is inadvisable to work to complete capacity, as we are doing, over a long period of time.

REPORT BY THE CONSULTING ORTHOPAEDIC SURGEON

One of the most important features of the past year has been the transfer of the Physiotherapy Department to its new quarters. These are a very great improvement on the old. They are much lighter and more spacious, and allow of much better work by the staff.

We are still looking forward to the equipping of the huts as a self-contained unit for orthopaedic cases. Several advantages attach to an arrangement of this kind, of which not the least attractive would be the possibility of undertaking the treatment of more children, and of cases of surgical tuberculosis. At present our work chiefly comprises accident cases, and the care of the very old. It would be greatly enhanced by the addition of more children's orthopaedic problems, including congenital deformities, surgical tuberculosis, and infantile paralysis. Long stay cases of this sort could be very well treated on the open-air verandahs which are designed to surround the hutted wards. It is to be hoped that it will be possible to equip and staff these wards in the near future, and that Clatterbridge will get a share of these interesting cases which are at present sent elsewhere. This would make the Resident Medical Officer's post much more attractive for men who are really interested in orthopaedic work and would broaden the training of the nursing staff.

REPORT BY THE CONSULTING TUBERCULOSIS PHYSICIAN

The increased number of X-ray examinations of the chest during the past year is an index of the ever-widening activities of the Tuberculosis Department, with reference to both diagnosis and treatment.

As I have indicated in previous reports, a General Hospital such as Clatterbridge has a most important function as regards the diagnosis and assessment of minimal lesions, and every effort is made to detect tuberculosis in its earliest stages, both in the suspected case, and also in what is probably more important—the unsuspected case. Every facility (clinical, radiological, laboratory) is used in the investigation of these cases for accurate assessment.

As regards in-patient treatment, Clatterbridge has neither the accommodation nor the trained nursing staff to deal adequately with cases of pulmonary tuberculosis, and patients are, therefore, transferred to special Tuberculosis Institutions

at the earliest possible moment, but they are given full advantage of the facilities at our disposal pending their transfer.

Out-patient treatment continues to be given at the Artificial Pneumo-thorax Clinic to an increasing number of patients. Many consultations have been held with other members of the Visiting Staff with reference to patients suffering from other ailments in addition to pulmonary tuberculosis.

I should like to thank my medical and surgical colleagues, and the lay staff of the Hospital in the various departments, for their continued whole-hearted co-operation

REPORT OF THE CONSULTING PHYSICIAN

The year 1946 has been an eventful one. The appointment of an additional Consultant Physician and an additional Consultant Surgeon should ease the burdens of these departments considerably. As further facilities become available and are recognised, however, the work of the hospital will increase still further. The past year in the medical department has been one mainly of solid routine, so that any patients admitted to the medical wards are carefully and fully investigated, an authoritative opinion on diagnosis and treatment made available as soon as possible, and where the illness calls for hospital supervision after the patient's discharge, a periodic "follow-up" at the medical clinic is undertaken. Naturally this involves a considerable amount of team work and a close contact with the other departments of the hospital, a co-operation which works smoothly and well.

Despite the progress of the medical department, especially the improvement which has taken place since the appointment of a Senior Resident Medical Officer in the presence of Dr. C. Ogilvie, the routine work appears to grow steadily and our time is so occupied that there is little or no opportunity for utilising the enormous wealth of clinical material which would provide ample opportunity for research and improving our knowledge of disease.

There are unrivalled opportunities in the Clatterbridge County General Hospital for clinical observations to be carried out on all types of cases which are not available in the teaching hospitals. Leisure and the avoidance of pre-occupation by routine are essential.

I think that the routine burden could be lighter, and more time spent on the very important aspect of research, and more time devoted by the senior members of the staff to the unusual

and difficult cases, if it were possible to increase the number of junior resident appointments. We should then be able to devote more of our time to the accurate and scientific treatment of the patient, without which there can be no advance in our knowledge.

A Senior Resident Medical Officer of considerable experience should always be available in the hospital, on the medical side. This would require two Medical Officers who have either obtained their membership or who are contemplating a career of consultant medicine. They should be relieved to a large extent of the routine work but should be available at all times to see admissions in the medical wards and undertake immediate treatment.

The standard of the E.C.G. records is still unsatisfactory and does not conform to our expectations. The possibility of appointing to this department a technician who might also be in charge of a basal metabolic rate apparatus and other forms of scientific apparatus which will undoubtedly be required in the future may be considered.

The diabetic clinic conducted by Dr. Ogilvie and the Dietician should be of immense value to these many patients and diminish the number of admissions to hospital of patients suffering from diabetic complications. No doubt the size of this clinic will increase as its value is appreciated.

The size of the Out-patient Clinic continues to grow, its value to the surrounding practitioners is undoubtedly appreciated, and it must save many patients from being admitted to hospital and occupying our sorely needed beds. I feel that if all investigations such as uroselectans, cholecystograms and gastro-intestinal X-rays could be carried out from the Out-Patient Department further benefit would accrue.

I have been relieved of the responsibility of the Children's Ward since my colleague, Dr. R. R. Hughes, was appointed. I have always felt considerable anxiety with regard to this department. No real progress can be expected until a new ward is available as the building and facilities come far below those desired for the management of sick children.

It is of mutual value to our medical colleagues in the vicinity and to ourselves to make their acquaintance and a clinical meeting held three or four times a year would prove a great help in establishing a liaison. There are still many practitioners in the area who have no conception of the Clatterbridge County General Hospital or its facilities.

The number of acute medical emergencies continues to increase; these impose a great strain on the resident staff—medical and nursing—and call for considerable devotion. The work of the Visiting Physician is very much dependent upon the co-operation of the staff, Medical Superintendent, resident medical staff, nursing and lay staff, especially the clerical staff. At the Clatterbridge County General Hospital I sincerely believe that we are fortunate in possessing a staff whose co-operation and enthusiasm is amazing and that without it we should be unable to accomplish a task which to me is a pleasure.

I should like to take this opportunity of stating my appreciation of the zealous assistance which I have obtained.

REPORT BY THE CONSULTING RADIOLOGIST

The work in this department continues to grow, and the number of cases radiographed over the year shows an appreciable increase over that of 1945.

1945—5,609

1946—6,580

During the year we had one major breakdown of the plant, owing to a mechanical defect, but steps have been taken to obviate a repetition of what might have been a very serious accident.

During the year it has been necessary to curtail slightly some of the Out-patient work, as this was growing to such an extent that it was interfering appreciably with the ordinary Hospital work, and there were occasions in consequence when there were some unavoidable and much regretted delays in radiographing some of these latter cases.

During the year an extra Radiographer and also a part-time Shorthand-typist have been engaged, and we have extended, by means of shift work, the working hours of the department from 8 a.m. to 6-30 p.m. Even with these additions, however, it is still difficult on occasions to cope daily with the number of cases, with only one machine.

We look forward to the additional plant which is to be installed in the hutted department of the hospital, and which will be a considerable help, although of course such an arrangement can never be so advantageous as the development of a single centralised department.

With regard to the new installation, I personally would very much appreciate it if it could be installed in the main Hospital in which of course the work will be the greater, as the present apparatus is of very solid construction, but also very heavy and exhausting to manipulate whilst screening.

My attention has been drawn to the amount of Electro-cardiographic work also done by this department, a factor which is becoming an influence in the running of the department and of which cognizance may have to be taken, with regard to the question of staffing.

REPORT BY THE CONSULTANT EYE SURGEON

I am glad to be able to write this report after an absence of over four years. The work is running very smoothly, thanks to the efficiency of the Sister-in-Charge of Out-patients. My thanks are also due to Theatre-Sister and her staff.

I should like to emphasise the importance of the early treatment of squints in children. Much valuable time is lost waiting "for him to grow out of it" or "till he can learn to read."

During the year lectures were given to the student-midwives on common conditions arising within a month of birth.

The courtesy received from everyone, from the Medical Superintendent downwards, makes work at Clatterbridge a real pleasure.

REPORT OF THE MEDICAL SUPERINTENDENT OF WEST PARK COUNTY HOSPITAL, MACCLESFIELD

This is the seventh Annual Report of the Medical Superintendent since the appropriation of the Institution as a Public Health (County) Hospital. Dr. A. Norman Jones left the Hospital on February 14th and from then until August, 1946, Dr. Beatty was Acting Medical Superintendent. Mr. E. W. Thomas took over duties as Medical Superintendent on August 20th, 1946.

There has been a definite increase in the amount of acute work done at the Hospital and it has been possible to allocate separate Wards for medical and surgical cases, both male and female, and also a Ward for Gynaecological cases.

Examination of the figures for 1946 shows an all round increase in the number of admissions, discharges and births.

Deaths showed a slight increase, whilst stillbirths showed a marked increase. The number of surgical operations was increased by almost 300. Further details are set out in the Statistical Appendix.

Maternity

This Department is the busiest in the Hospital, the average bookings being roughly 48 per month. Applications for admission were received from many parts of the County and these were often many months ahead. Pressure on the beds was relieved by the introduction of a system of earlier discharge of patients, namely, multiparae on the 10th day, and primiparae on the 12th day, in the absence of complications. In this way, only a very few bookings were refused.

During 1946, no obstetric emergency was refused admission. The results of the year's work have been very satisfactory. The number of maternal deaths were 5, out of 587 deliveries, which compares very favourably with the mortality rate over the rest of the country, and no serious outbreak of gastro-enteritis amongst the infants was encountered. This is very satisfactory in view of recent serious outbreaks of infection among infants in some other Maternity Hospitals.

Tonsils and Adenoids

Operations for removal of Tonsils and Adenoids are still being carried out by a Consultant Ear, Nose and Throat Surgeon who is assisted by a Special Anaesthetist. Whilst this arrangement works quite well, it is felt that the employment of a full-time E.N.T. Surgeon would give a wider service in this speciality, which would include regular Out-Patient Clinics. In this connection, more attention could then be paid to the prevention of deafness in children, a subject which has been neglected in the past. Furthermore, a full-time Surgeon could probably do more adult surgical work.

Physiotherapy

The figures for this Department show a considerable increase on those for 1945, so that it has become necessary to appoint an Assistant Physiotherapist. With this additional help, it has been possible to introduce a course of rehabilitation for post-operative cases and to give more time to the after care of Maternity cases.

Pathology

Most of the pathological investigations are still done at Parkside Hospital. Specimens are sent there by messenger.

This arrangement is not entirely satisfactory and there is a good case to be made for the employment of a full-time Technician at West Park Hospital. The Laboratory accommodation is not ideal, but it is probable that most of the ordinary day-to-day investigations could be carried out satisfactorily if this Laboratory were suitably equipped.

Rhesus investigations are not carried out at Parkside. These are still done at Manchester Royal Infirmary. During the year, considerable use was made of the Blood Bank at Manchester, particularly for the Maternity Department. We have had no difficulty in obtaining special Rhesus negative blood for special cases and in emergency.

A new steam drum steriliser was purchased and installed in a hut that was erected adjoining the boiler house. This has the double advantage of accommodating fourteen drums, is heated by steam and leaves the small drum steriliser on the Maternity Department free for use in emergencies.

Chronic Sick

Towards the end of the year, arrangements were made for the exchange of E.M.S. Chronic Sick in West Park, for those Macclesfield patients who were at Arclid and Nantwich Institutions. During the year, all chronic female cases were accommodated in H. and D. Blocks. Chronic male sick were accommodated in K.3 and 4. The proportion of chronic sick to acute sick has been consistently in excess of that which would be considered satisfactory for a Training School for Nurses. The problem of the chronic sick is not a local one. It is exercising the minds of authorities all over the country. As far as West Park Hospital is concerned, we are accommodating far more than our quota, compared with other Hospitals.

Clinics

Figures for the Ante-Natal and Post-Natal Clinics show a considerable increase on those for 1945. Certain improvements were carried out in the Ante-Natal Clinics by which each patient has a separate cubicle. Regular weekly sessions for medical, surgical and dental cases were held throughout the year. Special sessions were arranged for Orthopaedic, Ophthalmic, Gynaecological, Children and Skin cases, and patients attended by appointment whenever possible.

Venereal Disease

The need for in-patient treatment of these cases has diminished considerably with the introduction of the new Penicillin in Oil treatment.

Buildings.

Certain wards in the Hospital have been renovated and redecorated. A portion of G. Block was converted into a Lecture Room for the Nurses. This Block was never suitable for the nursing of sick patients and it was discontinued for this purpose. Many improvements were carried out in the Medical Officers' quarters above the Matron's flat. Two Medical Officers can now be accommodated here in comfort.

Following alterations to the Steward's General Office, the former General Office was converted into a Waiting Room for visitors to the Steward and Matron. A gas refrigerator was installed on the Children's Ward. The blast walls which had been erected at strategic points at the outbreak of war have all been demolished.

With the growth of activities in the Maternity Department, a third Labour Ward was provided in a single room and equipped. Baby baths were installed in the Nursery.

A new twin press has been installed in the Laundry. The whole of the iron piping in connection with the cold water supply to the West Park Nurses' Home was stripped and replaced throughout in copper. During the year, plans have been produced and approved for alterations and improvements to the Operating Theatre and Children's Ward. Work has not yet commenced. A heavy painting programme has been carried out and it is considered that the Hospital compares very favourably with any other Institutions from the point of view of painting and decorating.

Nurses' Accommodation

The lack of suitable accommodation for nursing staff has been frequently mentioned in past monthly reports. Twelve Nurses are now occupying the upper floors of D. and H. Wards. This latter accommodation is far from satisfactory but there is no alternative until the new Nurses' Home is erected.

Plans were produced during the year for improving the amenities at West Bank Nurses' Home and Park Farm Nurses' Home, but work has not yet been commenced.

Rock House, which previously housed the Medical Officer, is now being used to accommodate five of the Sisters.

At the end of last year, the Hospital was visited by the Official Inspector of the General Nursing Council, as a result of which the Hospital was approved as a Complete Training

School for Nurses for a period of two years. Following upon her visit, certain minor alterations were carried out in the Children's and Gynaecological Wards.

Medical Staff

Two Medical Officers have been resident throughout the year, one having the use of the Bungalow as married quarters. Dr. S. Cope, Resident Medical Officer, was successful in obtaining the M.D. (Leeds).

During the year, the Medical Superintendent had the benefit of the advice of various Consultants who attended either at regular intervals, or as necessary.

Nursing Staff

There is still a shortage of trained Nurses, particularly Staff Nurses and Sisters. The Hospital is still without a Sister-Tutor, in spite of repeated advertising in the Nursing Journals. In spite of the shortage of staff, it was not found necessary to close any of the Wards.

General Staff

The year 1946 saw the return of all members of the clerical and lay staff from service with H.M. Forces.

The growth of the Hospital's activities necessitated the engagement of a full-time Pharmacist. This work was formerly carried out by a part-time man who worked fifteen hours per week.

Domestic Staff

The position concerning domestic staff, cleaners, etc., remains acute. During the year the recommendations of the National Joint Council were applied to the domestic staff and had the effect of increasing the rates of pay, and providing special rates for week-end work. The desired results have not, however, been achieved. A fair proportion of the daily workers are part-time only and their attendance is extremely irregular.

Sutton Oaks.

Work was commenced at Sutton Oaks by the outside contractors, but owing to shortage of labour the workmen were withdrawn without the alterations being completed.

Establishment.

The following table shows the number of nurses employed on December 31st 1946, and indicates the vacancies, and those absent sick, or on leave:—

	Establish- ment.	Vacancies.	Absent ill or away.	Staff actually available.
Administrative	4	1	—	3
Trained Staff	29	17	3	9
Student Nurses	52	11	6	35
Male Asst. Nurses	6	—	—	6
Pupil Midwives	4	—	—	4
Female Asst. Nurses	6	6	—	—
	—	—	—	—
	101	35	9	57
	—	—	—	—

Examination Results

Preliminary State Examination—Parts 1 and 2.

February—3 entered—3 failed.

3 sat Part 2 only—1 failed.

June —6 entered—4 passed Parts 1 and 2.
2 passed Part 2.

September—1 sat Part 1—1 passed.

Central Midwives Board—Part 2.

8 entered—8 successful.

Nurses' Social Club

During the year a Social Club was formed for the Nursing Staff. Various social functions and recreational facilities have been provided since its inception. The Committee were very generous in approving certain sums of money for the purchase of games for the Club.

STATISTICS FOR 1946 CLASSIFICATION OF IN-PATIENTS

	<i>Public Health</i>	<i>E.M.S.</i>
<i>Admissions</i>	2,095	5
<i>Discharges</i> (Including babies born in the Hospital)	2,497	12
<i>Births</i>	587	—
<i>X-Rays—Patients</i>	1,406	—
<i>Radiographs</i>	3,595	—
<i>Operations</i>	1,029	—
<i>Massage Treatments</i>	7,013	—
<i>Pathological Examinations</i>	2,325	—
<i>Ante-Natal Attendances</i> ...	4,349	—
<i>Deaths</i>	160	16
<i>Stillbirths</i>	22	—

CLASSIFICATION OF IN-PATIENTS

(a)	<i>Infectious Disease</i>	
	Tuberculosis	17
	Other Diseases	4
(b)	<i>Rheumatism</i>	
	Acute Rheumatism	4
	Other forms of Rheumatism	16
(c)	<i>Cardio-Vascular System</i>	
	Auricular Fibrillation	1
	Pericarditis	3
	Pulmonary Embolism... ..	3
	Coronary Thrombosis	4
	Degenerative Conditions... ..	42
	Other Diseases	9
(d)	<i>Respiratory System</i>	
	Pneumonia	44
	Bronchitis	17
	Asthma	26
	Empyema	6
	Carcinoma	3
	Other Diseases	9
(e)	<i>Genito-Urinary System</i>	
	Carcinoma	5
	Diseases of Prostate	5
	(excluding Carcinoma)	
	Diseases of Kidney	10
	Diseases of Bladder	11
	Phimosis	23
	Other Diseases	21
(f)	<i>Nervous System</i>	
	Cerebral Haemorrhage	19
	Functional Diseases	36
	Diseases of Brain and its coverings... ..	8
	Other Diseases	12
(g)	<i>Digestive System</i>	
	Hernia	47
	Peptic Ulcer	29
	Appendicitis... ..	51
	Cholecystitis, Gall Stones, etc.	28
	Carcinoma	27
	Gastritis and Gastro-enteritis... ..	15
	Haemorrhoids, Fistula, etc	16
	Other Diseases	42

(h)	<i>Skin, Boils, etc.</i>	
	Infective Conditions	33
	Varicose Veins, Ulcers, etc.	14
	Other Conditions	25
(i)	<i>Venereal Disease</i>	
	Syphilis	13
	Gonorrhoea	4
(j)	<i>Injuries and Bones</i>	
	Fractures	24
	Burns and Scalds	10
	Other injuries	17
	Bone Infections	6
	Other Conditions	9
(k)	<i>Diseases of the Blood</i>	9
(l)	<i>General Diseases</i>	
	Marasmus	2
	Diabetes	19
	Prematurity	1
	Pyrexia of unknown origin... ..	5
	Senility	8
	Healthy Child	10
	Pilonidal Cyst	1
	Malfeeding	1
	Air Swallowing	1
(m)	<i>Sepsis</i>	
	Septic Fingers and Feet	5
(n)	<i>Vessels</i>	
	Phlebitis	1
(o)	<i>Eye Diseases</i>	
	Cataract	5
	Other Conditions	4
(p)	<i>Ear, Nose and Throat Diseases</i>	
	Enlarged Tonsils and Adenoids ...	316
	Mastoiditis	7
	Otitis	5
	Other Diseases	15
(q)	<i>Diseases of Women</i>	
	Diseases of Pregnancy	10
	Abortion	61
	Prolapse	20
	Salpingitis	6
	New Growths	18
	Other Conditions	40
	Cancer of Breast	11
	Breast Infections	11
	Innocent Tumours of Breast... ..	2

OPERATIONS—1946

Breast

Cyst of Breast	3
Mammary Abscess	8
Radical Amp. of Breast... ..	3
Gynaecological Operations	
Dilatation and Curette	51
Ruptured Ectopic	1
Oophorectomy	1
Hysterectomy	7
Colporrhaphy	23
Caesarean Section	1
Perineorrhaphy	2
Salpingectomy	1
Bartholin's Cyst	1
Vaginal Cyst	1
Removal of Placenta	1
Cautery	2
Cervical Polyp	1

Genito-Urinary System

For Hydrocele	1
Sigmoidoscopy	7
Prostatectomy	3
Dilation Stricture under GA... ..	17
Circumcision	23
Supra-pubic Cystotomy... ..	6
Cystoscopy	3
Ex. Papilloma of Bladder	1

Stomach and Intestines, etc.

Herniotomy	38
Perforated Gastric Ulcer	3
Appendicectomy... ..	48
Partial Gastrectomy	2
Cholecystectomy	15
Strang. Hernia	8
Caecostomy	3
Ischio-rectal Abscess	1
Excision of Haemorrhoids	12
Excision of Rectum	1
Colostomy	2
Abdo-perineal Resection	1
Draining Appendix Abscess	2
Closing of Colostomy	1
Perineal Fistula	1
Intestinal Obstruction	1
Pack renewed in Rectum	1
Hemicolectomy	2
Burst Abdomen	1
Laparotomy	14

Ophthalmic Operations

Extraction of Lens	4
Cataract Attempted	1
Meibonian Cyst	1

E.N.T. Operations

Radical Mastoid	1
Ts. and As.	301
Dissection of Tonsils	15
Removal Nasal Polypi	4
Caldwell Luc Operation	2
Antral Lavage	2
S.M.R.	2
Schwartz Operation	3
Dressing Mastoid	1
Lig. Bleeding Tonsils	4
Nasal Cautery	1
Oesophagoscopy	1
Temporo-sphenoidal Abscess	1
Post-Auricular Abscess	1
Biopsy Glands Sterno-Mastoid	1

Orthopaedic Operations

Amputation of Leg	1
Incision Septic Phlebitis	1
Lumbo-sympathectomy	1
For Hammer Toes	2
Reduction and Plaster	15
Explor. Medial Condyle	1
Removal Ganglion	1
Amputation of Toe	1
Plaster Spica	3
Dupuytren's Contracture	1
Suture of Tendon	1
Ex. Proximal I.P. Joints	1
Osteomyelitis of Jaw	1
Ex. Pilonidal Cyst... ..	1
Exc. Bursa	1
Caudal Injection	1

Thyroid Operations

Thyroidectomy	5
Para-thyroid Adenoma	1

Miscellaneous

Septic Fingers, etc.	12
Removal of Lipoma	1
Burns	1
Skin Graft	1
Incision of Abscess	11
Sebaceous Cyst... ..	2
Exc. Carbuncle	1
Trendelenberg Operation	10
Suture of wounds of face... ..	1
Exc. T.B. Glands of Neck	3
Hare Lip and Cleft Palate	3
Exc. Sub-maxillary Gland	1
Exs. wound of Knee	1
Cellulitis of Neck	1
Blood Transfusions	3
I.V. Drips	2
Miscellaneous Minor Ops.	265

PHYSIOTHERAPY REPORT FOR 1946.

No of Treatments Given

	Treat- ments	Attend- ances	Ad- missions	Dis- charges
Out-Patients	2612	1470	91	74
Ministry of Pensions...	795	408	11	4
Education	231	124	12	5
In-Patients	2669	1719	99	101
Maternity Wards... ..	706	90	—	—
	7013	3811	213	184

PATHOLOGICAL WORK

Bacteriological

Throat Swabs	69
Vaginal Swabs	39
Sputum	80
Urethral and Cervical Swabs	14
Swabs from Eye	4
Swabs of Pus	45
Pleural Fluid	10
Catheter Specimens of Urine	240
Examination of Faeces	182

Haematology

Blood Counts	297
Blood Sugars	110
Blood Ureas	176
G.C.F.T.	26
Wassermans	629
Special Blood Tests	20
Serum Calcium and Serum Protein	27

Histological Examinations 138

Fractional Test Meals 59

Other Tests

Urea Concentration Tests... ..	45
Cerebro-Spinal Fluids	36
A.Z. Tests	17
Sugar Tolerance	14
Miscellaneous	52

Total ... 2,329

X-RAY DEPARTMENT

	West Park Hospital	Park- side	Total
No. of Patients	1364	42	1406
No. of Examinations	1524	56	1580
No. of Radiographs	3479	116	3595
<i>Chests</i>	515	14	529
<i>Bones</i>			
Injury	180	20	200
Disease	200	12	212
<i>Alimentary Tract</i>			
Plain Abdomen	16	2	18
Barium Meals	118	1	119
Barium Swallows... ..	4	1	5
Barium Enemata... ..	37	—	37
<i>Gall Bladders</i>			
Plain Gall Bladder... ..	17	2	19
Cholecystographies... ..	36	2	38
<i>Urinary Tracts</i>			
Plain urinary tracts	5	1	6
Pyelographies	32	1	33
<i>Obstetrics</i>			
Pregnancies	241	—	241
Cystographies	1	—	1
Salpingographies	3	—	3
<i>Skull</i>			
Skull Bones	54	—	54
Facial Bones	17	—	17
Nasal Sinuses	42	—	42
Dental	6	—	6
<i>Fluoroscopies</i>			
Barium Swallows	4	1	5
Barium Meals	118	1	119
Barium Enemata	37	—	37
Chests	6	—	6
Bones	—	—	—

MATERNITY WARD

No. of Admissions	699
No. of Deliveries	587
Borough	231
County	219
Borough F.C.	17
County F.C.	120
Midwives, Deliveries	509
Doctors, Deliveries... ..	78
Maternal Deaths	5
Stillbirths	22
Infantile Deaths (10 days)	13
Premature Infants	35
Born before arrival	7
Emergencies	73
Post-Partum Haemorrhage... ..	16
Ante-Partum Haemorrhage	11
Ante and Post-Partum Haemorrhage	3
Medical Inductions	23
Part Artificial Feeding	156
Forceps Deliveries	51
Caesarean Sections	10
Pre-Eclamptic Toxaemias	38
Eclampsia	3
Retained Placentas	8
Manual Removal	15
Blood and Plasma	15
Breech Deliveries	25
Multipara Deliveries	257
Primipara Deliveries	330
Surgical Inductions	25
Spina Bifida... ..	1
Hydrocephalic... ..	4
Anencephalic	3
Medical Aid	248

ANALYSIS OF MATERNAL DEATHS

Uraemia and Necrosis of Kidneys	2
Haemorrhage and Kidney failure	1
Toxaemia of pregnancy, Obstetric Shock	1
Pulmonary Embolism	1

SUMMARY

	P.H.	E.M.S.	Total
Patients in Hospital, December 31st, 1945... ..	138	54	192
Patients in Hospital, December 31st, 1946... ..	141	31	172
Admissions... ..	2095	5	2100
Discharges... ..	2497	12	2509
Births	587	—	587
Deaths	160	16	176
Operations	1029	—	1029
Average duration of stay, County Patients—30.03 days.			
Average duration of stay, E.M.S. Patients—320.8 days.			
Average number of beds occupied throughout the year—			
Public Health 172.4.			
E.M.S. 39.6.			

Maternity

No of Admissions	699
Deliveries	587
Emergencies	73
Instrumental Deliveries	51
Breech Deliveries	25
Caesarean Sections	10
Toxaemia of pregnancy	38
Eclampsias	3
Stillbirths	22
Neonatal Deaths	13
No. of Mothers who attended:—	
Ante-Natal Clinic	514
No. of Attendances	4349

Pathological Department

Bacteriological	679
Haematology	1285
Histological	138
Fractional Test Meals	59
Other Tests	164
Total ...	
2325	

X-Ray Department

No. of Examinations	1580
No. of Radiographs	3595

Physiotherapy

No. of Treatments	7013
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Comparative Figures

	1943	1944	1945	1946
Admissions	1763	1766	1917	2100
Births	447	520	480	587
Massage Treatments... ..	3929	3434	3788	7013
Radiographs	2145	3055	3333	3595
Pathological Examinations ...	1477	2153	1927	2325
Ante-Natal Attendances	3232	3346	2831	4349
Operations... ..	734	623	761	1029

REPORT OF THE MEDICAL SUPERINTENDENT OF THE MARY DENDY HOMES, ALDERLEY EDGE

Admissions

There were, on the 31st December, 1946, 281 males and 146 females—making a total of 427 patients—resident in the Homes.

During the year seventeen boys and seven girls came into the Homes as new admissions. Nine male patients were admitted under the Provisions of the Mental Deficiency Acts. As these latter patients were already resident their discharge and re-admission was automatic.

The mental state on admission of the thirty-three patients was as follows:—

	M.	F.	Total
Imbecile... ..	2	—	2
Feeble-minded	24	7	31
Totals	26	7	33

Discharges

Seventeen males and seven females were removed from the Homes during the year. Of the male patients fourteen were removed to the care of relatives or friends and two were transferred to other Institutions. One man who had been out on licence for some time was discharged by Order of the Board of Control. The seven female patients were removed to the care of relatives or friends.

Licences

At the end of December 12 male and seven female patients were out on licence.

Deaths

Two deaths have to be recorded—one adult male patient from Peritonitis and perforated ulcer and one schoolboy who died in West Park Hospital from Tuberculous Peritonitis.

This gives on the resident figure a death rate of 4.6 per 1,000.

Age Classification

A classified list of the ages of resident patients is shown in the following table:—

	Male	Female	Total
Under 16 years	68	37	105
16—20 „	49	15	64
21—29 „	72	29	101
30—40 „	24	20	44
Over 40 „	68	45	113
Totals	281	146	427

General Health Patients.

Taken over the 12 months, the general health of the patients has been fairly good.

An Influenza epidemic occurred in February and March of 1946—this was of two types—gastric and respiratory. Some patients recovered from the one type only to fall victims to the other in the course of a few days or weeks. No complications, however, ensued.

Two adult male patients were sent into West Park Hospital, Macclesfield, for hernia operations.

One adult female patient and one schoolgirl were sent into West Park Hospital for Appendicitis operations.

One adult male patient was sent into West Park Hospital with a Gastric Ulcer—and was operated on successfully.

General Health Staff

Taking the staff generally the health has been fairly good except for colds and an occasional epidemic of sore throats. A large number of nurses were involved in the Influenza epidemic.

One nurse was sent into West Park Hospital where she was operated on for appendicitis.

The Assistant Joiner was operated on for acute intestinal obstruction.

Staff

The staff position during the past 12 months has been as follows:—

Additions to Staff

- 20 female student nurses.
- 2 male student nurses.
- 2 assistant cooks.
- 1 female assistant gardener.
- 1 cook-housekeeper.
- 1 gardener handman (for The Moss).

Resignations.

- 14 female student nurses.
- 2 female staff nurses.
- 2 ward sisters.
- 1 female house-warden.
- 2 assistant cooks.
- 1 male gardener.
- 1 female gardener assistant.
- 1 assistant laundry-maid.

At the present time there are 31 female student nurses employed and there are 7 vacancies for female student nurses. We have a waiting list of 8 female nurses due to come here for service.

With regard to male student nurses, at present we employ 6 and there are vacancies for 5 more. We have two names on our waiting list of male student nurses due to come here.

Throughout the year Classes have been maintained, although the position has been extremely difficult due to inability to obtain a Tutor-Sister. The teaching was carried out by Mrs. Pile who acted as Hon. Tutor-Sister, and in December, 1946, Miss Florence Thornton was appointed Tutor-Sister.

With the adoption of the recommendations of the National Joint Council for domestics, it has been found necessary to increase the number of assistant cooks, but despite every effort, and constant appeals to the Ministry of Labour for British or Irish women or for displaced persons, this shortage has not yet been eased.

Activities

The following entertainments have taken place in the past year:—

- Seventeen dances for Patients.
- Several parties for Patients.
- Two major staff dances.

Whist-drive and dance every fortnight for staff and people in the neighbourhood.

Three Plays by the Macclesfield Players.

Two Variety concerts and one Revue.

A bon-fire and firework display on November 5th followed by a dance for the patients.

At the present time the staff and patients are engaged with rehearsals for a Pantomime which will be held in the near future.

The Annual Revue by staff and patients, presented in March, 1946, was also given at Arclid Institution and at Peover Hall Resettlement Camp.

As previously, throughout the year a large number of patients have gone to the Cinema either individually or in groups and to other entertainments as far out as Belle Vue, Manchester, and also to Stockport.

The Football Team this year joined the Sunday School League and has done fairly well.

Physical training classes and boxing continue to do well under the direction of Mr. R. Whitwell.

The Scouts are also continuing to do well under Mr. Smith, despite the shortage of equipment.

A Youth Club has been opened for young adult male patients where darts and cards and table-tennis, etc., are played in the evenings. It is intended to have competitions with other Youth centres and already a Dart Match has been played with the boys from the Mobberley Approved School.

Sunday services have been continued throughout the year by the Rev. S. Key and the Rev. H. Thompson.

An interesting innovation occurred this year, namely the transfer of practically the entire Institution to Abergele for one month's holiday. Only the minimum of patients essential for the farms and gardens were retained, and these patients worked on a fortnightly shift. Both staff and patients lived under canvas and the weather on the whole was favourable. This camp was much enjoyed by the patients, who are already looking forward to another one this year. In all, 343 patients and 50 staff were under canvas during this period.

The Farm

The farm, on the whole, has had a fairly good year. The value of milk, eggs and potatoes supplied to the Homes from the 1st January, 1946, is £2,488. 13s. 11d., and of the Farm Produce sold £2,676. 17s. 10d.

The Gardens

The value of the garden produce supplied to the Homes and Farm from 1st January, 1946 is £1,648. 16s. 0d. Garden produce sold (surplus) is £155. 1s. 0d.

Bostock Barns Farm

This farm has continued with the training of patients, but has had an unsettled year. The Farm Bailiff—Mr. J. M. Edgar—left the service of the County Council on the 23rd April, 1946, and Mr. D. Eaton commenced duty as Farm Bailiff on the 15th June, 1946.

At the present moment 4 patients are employed on licence at this farm.

A good supply of T.T. milk has been supplied from Bostock Barns to the Houses in the Institution.

Special School

Throughout the year there has been an average attendance of 99.4% at the school.

Miss Kiddle continues to give careful individual attention to the children and their school progress is estimated in correlation with periodic intelligence tests. As before, all the children show marked improvement in posture and agility which is chiefly due to the well thought out programme of physical training.

During the year Miss Wright left the service of the school and Mr. Preston joined the school staff.

Night School

The night school has had a somewhat broken session due to change of teachers, but it has been carried on by Mrs. Robinson, Miss Wright and Mr. Preston.

Laundry

The number of patients employed in the Laundry is 23 and the laundry has shown improvement in the handling of washing during the past 12 months.

Tradesmen

The Electrician—with one patient—during the past 12 months, has continued maintenance work throughout the Homes.

The Painter—with two patients—has continued throughout the year to do routine maintenance work.

The Joiners have carried out routine maintenance work, but owing to ill-health of both men, their working time has been considerably broken.

Two sets of parallel bars and a jungle Gym have been erected for the children in Wyatt House playground.

The Brush and Handicraft Shops continue to do well under Miss Wood despite the apparent ever-increasing shortage of materials.

During the past year 896 new brushes have been made and 1,176 brushes have been repaired.

In the Handicraft Shop 538 articles including toys, woven articles, leather goods, etc., have been made.

Value of Handicraft goods for Homes ...	£52	14	2
Value of Handicraft goods sold	£49	12	6
Value of Brushes sold	£38	6	7
Value of Brushes (new) sold to Homes...	£35	18	2
Value of Brushes repairs to Homes ...	£68	16	1
	£245	7	6

A considerable quantity of repairs have been carried out on Institution furniture, throughout the year in the wood-work department.

The bricksetter has been engaged throughout the year doing maintenance work in the Institution.

The plumber has been engaged—with the help of one patient—on maintenance and repair work throughout the Homes.

The following work has been done in the tailor's shop during the past 12 months:—

202 new garments—including overcoats, shirts, and also complete suits for male nurses—£319. 5s.

2607 articles—including clothing and upholstery—have been repaired throughout the year—£130. 7s.

The following work has been carried out in the cobbling shop during the past 12 months:—

Institution repairs (patients)—10776—			
value	£1885	12	0
Institution repairs (staff)—130—value	£26	0	0
New work supplied to Homes—161—			
value	£114	14	3
	£2026	6	3

Official Visits

The Commissioner of the Board of Control, Doctor Wilson, accompanied by Mrs. Bott, of the Ministry of Labour, visited the Homes on March 25th, 1946.

Conclusion

On the whole the year has not proved as successful as was anticipated. The Moss—a commodious building—was purchased as a Nurses' Home, and is at present occupied by night nurses, but the furniture ordered for it has not yet been obtained.

The extension to the Nurses' Home (Warford Lodge) still drags on uncompleted and it is difficult to know when this will be fit for residence.

The eagerly awaited Cinema has as yet failed to materialise, despite the purchase of the equipment.

The huts for adolescent patients and male staff have not yet been purchased and the division of patients into fresh grouping according to age and intelligence cannot, therefore, be carried out. These difficulties, however, are common throughout the country in the present time of stress, but every effort should be made to accelerate this programme as much as possible.

The staff houses, which are so very much in demand, are still only in the planning stage.

There is still a need for low-grade accommodation both in the Homes, and a new block should be obtained where cot and chair cases can be dealt with, as the nursing of such patients would prove invaluable in the training of staff, and would also materially assist the crying need for accommodation in the County.

In conclusion I wish to offer my thanks for the co-operation I have had from the members of the Cheshire County Council, the Mary Dendy Homes Committee and the County Officers.

I also wish to record my appreciation of the very loyal co-operation which my staff have given me during the past year.

REPORTS OF THE MEDICAL SUPERINTENDENT OF WRENBURY HALL, NANTWICH

Quarterly reports have been submitted to the Wrenbury Hall Advisory Committee as usual; for statistics of patients treated see p. 41.

PUBLIC ASSISTANCE INSTITUTIONS

The following improvements and re-instatements have been carried out. In addition many schemes for further improvements have been prepared and in most cases are awaiting approval of the Ministry of Health.

Abergele Camp

Alterations and restoration after use of the Camp by the Military have been commenced.

Arclid Institution

Internal decoration and repairs to the Mental Block and removal of A.R.P. Blast Walls to the Institution Buildings generally have been carried out.

Bucklow Institution

This Institution was officially de-requisitioned, after use by the War Department, on the 12th February, 1947, and a claim for dilapidation is now in course of preparation.

Cresswellshawe House

Internal re-decoration and re-wiring of the Electrical Installation have been completed.

Dutton Institution

Internal decoration to the Hospital and various minor works of maintenance have been carried out. It was hoped to commence work on the extension of the sewage plant. This was unfortunately held up due to the severe winter, but the Contractor is ready to commence when the weather becomes more favourable.

Nantwich Institution

The Male Lavatory Block has been erected. The removal of A.R.P. Blast Walls has been completed and minor repairs have been carried out. The installation of a new 4" diameter water main has commenced.

Northwich Institution

Minor painting and maintenance works have been carried out during the year and authority has been received from the Ministry for the decoration of the Board Room and External Painting to the Institution generally.

Shotwick House

Internal decoration and re-wiring of Electrical Installation has been carried out.

Tarvin Institution

A new boarded boundary fence has been erected and a new Potato Peeling Machine has been installed.

Section XII.-Cancer

On 1st August, 1946, the Council's arrangements in accordance with their scheme under the Cancer Act, 1939, came into force. These were as follows:—

(1) The Council will provide all necessary facilities so that every person in the County who is, or is suspected to be suffering from cancer may obtain advice, and that every such person who is found to be suffering may obtain adequate treatment. In particular the Council will provide the facilities set out in the following paragraphs.

(2) The Council will, by agreement with the Liverpool Cancer Control Organisation (hereinafter called the "Organisation") and with the Christie Hospital and Holt Radium Institute, Manchester (hereinafter called the "Christie Hospital") provide from the resources of the Organisation and of the Christie Hospital the appropriate treatment for all persons in the County suffering from cancer.

(3) The Council will provide facilities for consultation and treatment at the following Hospitals co-operating with the Organisation and with the Christie Hospital:—

(A) *Hospitals Co-operating with the Organisation.*

(i) *Hospitals at which all forms of treatment will be provided:*

Chester Royal Infirmary.
Liverpool Radium Institute and
Royal Liverpool United Hospital.

(ii) *Hospitals at which Surgical or Palliative Treatment will be provided:*

Chester City Hospital.
Clatterbridge (County) General Hospital,
Bebington.
Royal Liverpool United Hospital (all
branches).
The Women's Hospital, Liverpool.
The Liverpool Eye, Ear and Throat Infir-
mary.
The St. Paul's Eye Hospital, Liverpool.
The Royal Liverpool Children's Hospital.
Liverpool City Hospital (Smithdown Rd.).
Liverpool City Hospital (Broadgreen).
Liverpool City Hospital (Walton).

Liverpool City Hospital (Belmont Rd.).
 Liverpool City Hospital (Mill Rd.).
 Bootle General Hospital.
 Victoria Central Hospital, Wallasey.
 Birkenhead General Hospital.
 Birkenhead Municipal Hospital.
 Birkenhead and Wirral Children's Hospital.

- (iii) *Hospitals at which facilities for consultation, diagnosis and Medical Observation after treatment will be provided:*

Wallasey Cottage Hospital.
 Prince Edward War Memorial Hospital,
 Rhyl,
 and all those Hospitals listed under (i)
 and (ii) above).

- (iv) Any other Hospital or Hospitals which, for the provision of any or all of the above facilities may, with the approval of the Ministry of Health, agree to co-operate with the Organisation.

(B) *Hospitals co-operating with the Christie Hospital.*

- (i) *Hospitals at which Radio-therapy and all forms of treatment will be available:*

Christie Hospital and Holt Radium
 Institute, Manchester.

- (ii) *Hospitals at which Surgical or Palliative Treatment will be provided:*

West Park (County) General Hospital,
 Macclesfield.
 Warrington Infirmary.
 Ashton-under-Lyme District Infirmary.
 and (as a Preliminary Diagnostic Centre
 only)
 Crewe Memorial Hospital.

- (iii) *Hospitals at which facilities for consultation, diagnosis and medical observation after treatment will be provided:*

All those Hospitals listed under (i) and
 (ii) above.

- (iv) Any other Hospital or Hospitals which for the provision of any or all of the above facilities may, with the approval of the Ministry of Health, agree to co-operate with the Christie Hospital.

- (4) The Council will arrange for the attendance of consultants at any of the above places either with themselves or through the medium of the Organisation or the Christie Hospital as the case may be, and at such times as may be necessary in order to meet individual needs.
- (5) The Council will arrange with the approval of the Ministry of Health for accommodation to be available for such patients as require nursing and palliative treatment in the last stages of irremediable disease.
- (6) The Council will make arrangements through the Organisation or the Christie Hospital, as the case may be, for the transfer of such patients as require highly specialised treatment to such special centres as are or may be approved by the Ministry of Health.
- (7) The Council will, by agreement with:—
 The Liverpool Cancer Control Organisation,
 The Christie Hospital and Holt Radium
 Institute, Manchester,
 arrange for the examination of pathological specimens in all cases where such examination is considered necessary for purposes of diagnosis and treatment, and will collaborate with the Organisation or the Christie Hospital, as the case may be, in the maintainance of Pathological Registers including such specimens.
- (8) In addition to the general arrangements set out above, the Council will provide for the diagnosis and treatment of any individual case at such Hospital or other Institution as the Minister may approve.

The following figures show the number of deaths from Cancer in the County area for the last ten years.

	Aggregate of		
	Urban Areas.	Rural Areas.	Total.
1937	915	241	1156
1938	660	270	930
1939	1004	224	1228
1940	978	277	1255
1941	1037	268	1305
1942	980	250	1230
1943	1104	248	1352
1944	1117	283	1400
1945	1126	286	1412
1946	1160	299	1459

Section XIII.-Water Supplies, Sewerage and Sewage Disposal

Under the provisions of the Rural Water Supplies and Sewerage Act, 1944, a sum of fifteen million pounds is placed at the disposal of the Minister of Health to assist schemes for the provision or improvement of water supply and the provision of sewerage facilities in rural localities. Local Authorities are required to consult the County Council before submitting schemes to the Minister, and to report to him the observations, if any, of the County Council. Full opportunity is thus afforded to the County Council to express their views on the scope of the schemes for their area, e.g., whether individual schemes for separate parishes or districts are advisable or whether there should preferably be a combined scheme covering all the areas in question or ranging more widely. If the Minister undertakes to make a contribution towards the cost of a scheme the County Council is also required to contribute.

During the year applications for contributions in respect of the following schemes have been submitted to the County Council:—

Bucklow Rural District.—Parishes of Bollington and Millington (Sewerage and Sewage Disposal).

Chester Rural District.—Parishes of Christleton, Great Boughton, Great Saughall, Mollington (Sewerage).

Congleton Rural District.—Parishes of Church Hulme and Odd Rode (Sewerage).

Macclesfield Rural District.—Parish of Poynton (Sewerage).

Northwich Rural District.—Parish of Delamere (Sewerage and Sewage Disposal).

Tarvin Rural District.—No Man's Heath (Sewerage and Sewage Disposal).

Parishes of Burwardsley, Clotton, Duddon, Edge, Foulk Stapleford, Hampton, Iddenshall, Kelsall, Macefen, Malpas, Mouldsworth, Tarvin, Tattenhall, Tilston (Water supply).

A Ministry of Health Inquiry was held at Hazel Grove on the 6th March, 1946, into an application by Hazel Grove and Bramhall Urban District Council to borrow £32,500 for the internal sewerage of the residential area of Woodford which was added to the Urban District on April 1st, 1939. Another application for a loan of £16,800 was made in respect of proposed extensions to Offerton Sewage Works.

Conferences have taken place between the County Council, the Urban Councils of Alderley Edge, Bowdon, Hale, Wilmslow, and the Rural Councils of Bucklow and Macclesfield with regard to the proposed formation of a Joint Sewerage Board.

Shortage of building labour and material and the difficult economic situation are delaying the commencement of major schemes for public services. Only small scale extensions of water mains have been sanctioned during the year.

APPENDIX OF STATISTICS

1946

TABLE A.

Deaths by Causes.—Sex—
 Each County District.

TABLE B.

Deaths by Causes.—Sex; Age—
 ■■■■ Urban Districts, Rural Districts.

TABLE C.

Statistical Summary of enumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each County District.

TABLE A (Urban i).

CAUSES OF DEATH.	Alderley Edge U.D.		Aleager U.D.		Altrincham M.B.		Bebington M.B.		Bollington U.D.		Bowdon U.D.		Bredbury and Romiley U.D.		Cheadle and Gatley U.D.		Congleton M.B.		Crewe M.B.		Dnkinfeld M.B.		Ellesmere Port U.D.		Hale U.D.		Hazel Grove and Bram- hall U.D.		Hoole U.D.		Hoylake U.D.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
ALL CAUSES	19	24	33	25	211	220	226	193	30	27	15	23	107	85	140	159	92	109	339	290	144	110	143	109	75	72	93	116	57	41	154	169	
1 Typhoid and Paratyphoid Fevers	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
2 Cerebro-Spinal Fever	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
3 Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
4 Whooping Cough	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	1	...	...	...	...	...	...	...	
5 Diphtheria	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	
6 Tuberculosis of Respiratory System	1	...	...	...	9	5	14	2	1	...	...	...	5	1	9	3	7	2	13	7	5	2	6	5	2	1	1	3	1	...	6	5	
7 Other forms of Tuberculosis	1	1	...	...	...	1	6	...	...	...	...	...	...	1	...	...	2	...	1	4	...	...	...	2	...	...	...	1	...	...	1	1	
8 Syphilitic Diseases	...	...	...	...	1	...	2	...	...	...	...	...	...	...	1	...	...	...	1	2	4	1	1	...	...	...	...	...	...	...	...	...	
9 Influenza	...	...	...	...	...	1	...	...	...	...	...	...	1	1	1	2	1	1	2	1	...	...	...	...	...	...	1	1	...	...	...	2	
10 Measles	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	1	...	...	...	...	...	
11 Ao: polio-myel: & polio-encephl:	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	
12 Ao: inf: enceph:	...	...	...	...	...	...	1	1	...	...	...	...	1	...	1	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	1
13 Cancer of b: cav: & œsoph: (M.) 																																	

TABLE A.—(Urban ii)

CAUSES OF DEATH.				Hyde M.B.		Knutsford U.D.		Longendale U.D.		Lymm U.D.		Macclesfield M.B.		Marple U.D.		Middlewich U.D.		Nantwich U.D.		Neston U.D.		Northwich U.D.		Runcorn U.D.		Sale M.B.		Sandbach U.D.		Stalybridge M.B.		Wilmslow U.D.		Winsford U.D.		Wirral U.D.		
				M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
ALL CAUSES				220	232	44	42	42	38	40	32	234	249	81	88	26	35	56	54	51	61	147	101	177	127	231	255	48	49	170	164	81	102	68	64	93	101	
1 Typhoid and Paratyphoid Fevers				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
2 Cerebro-Spinal Fever				1	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
3 Scarlet Fever				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
4 Whooping Cough				...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
5 Diphtheria				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	
6 Tuberculosis of Respiratory System				8	1	1	...	1	...	1	1	10	3	4	2	...	2	2	1	2	3	7	5	4	4	4	3	...	...	9	2	4	2	2	2	4	1	
7 Other forms of Tuberculosis				...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
8 Syphilitic Diseases				1	1	1	...	...	...	...	1	1	1	1	...	...	...	...	...	...	1	...	1	...	...	...	4	1	...	1	1	2	1	...	2	...	1	1
9 Influenza				2	3	...	1	...	...	...	1	...	...	3	1	2	...	...	...	...	...	...	1	1	1	...	1	...	...	1	...	...	1	1	...	...	...	
10 Measles				1	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	
11 Ac: polio-myel: & polio-enceph:				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
12 Ac: inf: enceph:				...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
13 Cancer of b. cav: & oesoph: (M.) uterns (F.)				7	6	1	...	...	...	1	...	4	3	1	1	...	...	2	...	1	...	1	1	2	3	2	5	...	...	...	...	2	4	...	1	1	1	
14 Cancer of stomach & duodenum				8	5	1	...	1	...	2	2	8	2	4	1	1	1	2	1	2	2	5	4	9	3	11	8	2	1	2	4	3	1	...	2	6	1	
15 Cancer of breast				...	16	...	...	...	2	...	1	...	11	...	2	...	2	...	2	...	1	1	5	...	1	...	6	...	2	...	7	...	6	...	1	...	5	
16 Cancer of all other sites				30	16	7	4	5	2	6	5	25	30	13	14	1	3	6	6	6	2	15	6	15	6	23	24	5	2	17	15	8	10	2	4	11	13	
17 Diabetes				2	3	1	...	...	...	2	4	...	1	2	1	...	...	1	...	...	...	2	1	4	1	3	...	...	1	1	...	...	...	...	2	4	11	13
18 Intra-organ: vaso: lesions				19	33	1	2	2	7	9	4	23	35	7	11	3	6	6	7	7	10	12	12	10	19	36	34	4	4	20	19	11	17	8	8	5	7	
19 Heart Disease				47	70	11	14	17	17	9	5	50	73	20	25	12	7	24	19	14	22	39	27	53	43	61	64	10	12	47	46	21	26	19	17	36	37	
20 Other Diseases of Circulatory System				4	1	2	1	2	...	1	4	13	2	3	...	3	1	1	1	4	5	2	8	3	5	7	2	3	1	6	5	8	...	2	3	5		
21 Bronchitis				15	6	2	1	1	2	1	2	23	5	7	4	2	1	1	1	2	...	18	4	19	4	11	13	2	3	25	14	1	2	6	2	1	1	
22 Pneumonia				15	8	1	1	1	1	...	7	9	4	3	...	...	...	...	1	3	3	2	10	6	7	8	1	1	5	5	5	2	1	1	4	3		
23 Other Respiratory Diseases				5	4	1	...	1	...	...	4	1	1	1	...	...	...	...	1	...	6	2	1	...	2	4	...	...	4	2	1	1	...	1	...	3		
24 Ulcer of stomach or duodenum				2	...	...	...	...	...	...	2	...	...	...	...	...	1	...	...	...	1	...	2	...	6	...	...	1	2	1	...	1	1	...	2	1		
25 Diarrhoea under 2 years				2	...	...	...	...	...	...	...	3	1	...	...	1	2	1	...	2	1	6	2	1	1	...	...	1	2	1	...	1	1	...	2	1		
26 Appendicitis				...	1	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	...	2	1	6	2	1	1	...	...	1	...	...	...	...	...	...	...	
27 Other Digestive Diseases				5	4	3	1	2	1	1	...	3	6	2	3	...	...	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	2	...		
28 Nephritis				8	9	2	3	...	2	...	1	13	13	...	1	...	...	3	3	...	1	4	3	6	5	7	9	2	2	3	6	2	3	3	2	4	2	
29 Puerperal & post-abort: Sepsis				...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
30 Other maternal causes				...	1	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
31 Premature Birth				4	3	1	...	1	2	2	4	5	...	...	...	...	1	1	1	1	...	2	1	2	2	3	1	...	5	4	1	...	...	...	1	2		
32 Con: mal: birth inj: infant: dis:				3	2	...	3	2	...	1	...	3	4	1	...	1	2	...	...	3	2	7	3	3	...	5	6	3	3	8	2	2	1	3	1	...	2	
33 Suicide				4	5	...	1	...	...	...	1	4	...	1	...	...	1	...	1	...	1	5	1	...	...	2	1	2	...	...	2	3	1	...	2	...		
34 Road Traffic Accident				...	...	...	...	1	...	...	2	...	3	1	...	...	...	...	1	1	5	1	...	...	2	1	2	...	...	2	3	1	...	...	2	...		
35 Other violent causes				6	2	2	...	1	...	1	2	5	3	1	5	1	1	1	2	1	1	1	1	6	4	3	2	...	...	1	...	1	1	2	1	1	1	
36 All other causes				21	31	6	8	4	2	5	2	25	24	3	5	2	5	3	5	6	2	9	10	11	10	23	38	13	12	13	18	6	11	7	13	7	12	
				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Deaths of Infants (under one year) { Total				14	9	1	5	3	1	3	2	9	16	3	4	1	2	2	4	7	3	12	7	12	8	11	11	4	3	16	10	3	1	4	1	3	4	
Deaths of Infants (under one year) { Legitimate				14	8	1	6	3	1	2	2	8	15	3	4	1	2	2	3	5	3	10	6	11	7	10	8	3	3	15	9	3	1	4	1	3	4	
Deaths of Infants (under one year) { Illegitimate				...	1	...	...	...	...	1	0	1	1	...	...	...	...	1	2	...	2	1	1	1	3	1	...	...	1	1	...	...	...	...	...	...		
LIVE BIRTHS—Total				280	293	47	53	36	32	54	54	238	295	83	88	63	68	67	69	87	86	204	201	227	252	386	365	101	83	242	195	117	126	130	96	151	142	
LIVE BIRTHS—Total { Legitimate				265	278	43	47	34	30	49	60	267	274	80	84	61	69	65	65	84	83	189	187	217	245	372	344	99	83	226	188	112	123	124	91	143	137	
LIVE BIRTHS—Total { Illegitimate				15	15	4	6	2	2	6	4	21	21	3	4	2	9	2	4	3	3	15																

TABLE B

CAUSES OF DEATH.	Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.									
		All Ages	0—	1—	5—	15—	45—	65—	All Ages	0—	1—	5—	15—	45—	65—						
ALL CAUSES	M	3676	249	35	41	277	1088	1986	995	57	7	13	73	259	586						
	F	3678	191	26	27	232	782	2360	922	37	8	9	75	186	607						
1. Typhoid and Paratyphoid Fevers	M								1						1						
	F								1						1						
2. Cerebro-spinal Fever	M	3	1						1												
	F	2		1	1		1		1												
3. Scarlet fever	M																				
	F	1		1																	
4. Whooping cough	M	4	2	2					1	1											
	F	1	1						2	1											
5. Diphtheria	M								2		1										
	F																				
6. Tuberculosis of respiratory system	M	147		3		57	69	18	23												
	F	76	1		1	53	16	5	22		1	8		10	5						
7. Other forms of tuberculosis	M	22		1	4	10	5	2	2		1			6	1						
	F	15		3	6	4	1	1	3			1									
8. Syphilitic diseases	M	15	1			2	9	5	4					1	1						
	F	14	3				4	5				2									
9. Influenza	M	46	1			4	21	20	8					1	7						
	F	48		1		5	12	30	12			3		4	6						
10. Measles	M	2	1	1					1	1											
	F	2		2																	
11. Ac: polio-myel: & polio-enceph:	M	1			1																
	F																				
12. Ac: inf: enceph:	M	2			1			1	2												
	F	6			2		2	2	3			1		2	1						
13. Cancer of buc: cav: & oesoph: (M.) uterus (F.)	M	46				1	14	31	15					3	12						
	F	51				7	24	20	13					5	7						
14. Cancer of stomach and duodenum	M	127				2	52	73	29					11	16						
	F	80				2	23	55	18					3	14						
16. Cancer of breast	M	1					1														
	F	147				19	69	59	28					9							
16. Cancer of all other sites	M	381			2	24	147	208	111			2	7	38	64						
	F	327			1	29	122	175	85				4	40	41						
17. Diabetes	M	18				3	6	9	8												
	F	46				1	14	31	9			1		2	6						
18. Intra-cranial vascular lesions	M	366	1			10	83	272	100					24	75						
	F	495				8	100	387	128					16	111						
19. Heart disease	M	1035			2	37	301	695	292					71	216						
	F	1048			2	38	158	850	282				6	47	232						
20. Other diseases of circulatory system	M	100				2	18	80	36					6	28						
	F	124		1		6	13	104	34			2		7	26						
21. Bronchitis	M	251	4	1	10		102	134	51	1				12	29						
	F	145	3		1		26	115	38	2	2			3	29						
22. Pneumonia	M	152	33	3	2	8	51	55	27	10				6	9						
	F	103	35	2	1	4	12	49	19	2	1		1	5	7						
23. Other respiratory diseases	M	47	2			5	22	13	14					6	8						
	F	40		1		4	18	17	5					3	2						
24. Ulcer of stomach or duodenum	M	45				7	25	13	17					8	6						
	F	11				2	1	8	3			3		2							
25. Diarrhoea under 2 years	M	36	36						2	2											
	F	12	11	1					3	3											
26. Appendicitis	M	10			3	4	2	1	2												
	F	10		1	3	2	2	2	3												
27. Other digestive diseases	M	86	4	1	1	8	36	36	22					1							
	F	97	1	1		14	30	51	22	1			1	4	11						
28. Nephritis	M	114			3	13	33	64	32					4	13						
	F	123	1			19	33	70	33					8	15						
29. Puerperal & post-abort: sepsis	F	4				4			3												
30. Other maternal causes	F	18				18			7												
31. Premature birth	M	57							13												
	F	52	57						5	13											
32. Con: mal: birth inj: infant: dis:	M	100	90	3	4	2	1		27	26											
	F	73	67		2	2	2		20	19											
33. Suicide	M	27				9	11	7	11												
	F	43				16	17	10	8												
34. Road traffic accident	M	42		2	4	19	5	12	22					5	3						
	F	10		1	2	2	4	1	5	1					1						
35. Other violent causes	M	77	6	12	8	20	15	16	23	2	2	3	5	5	6						
	F	55	8	4	2	3	2	36	16	1		2		2							
36. All other causes	M	316	10	5	5	22	58	216	95	1	1	2	7	17	67						
	F	399	8	6	7	24	77	277	93	4	1	3	12	8	65						

TABLE A.—(Kural).

CAUSES OF DEATH.	Bucklow R.D.		Chester R.D.		Congleton R.D.		Disley R.D.		Macclesfield R.D.		Nantwich R.D.		Northwich R.D.		Runcorn R.D.		Tarvin R.D.		Tintwistle R.D.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES	58	61	97	83	66	58	26	28	108	102	160	143	177	166	201	182	98	100	4	9
1 Typhoid and Paratyphoid Fevers	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...
2 Cerebro-Spinal Fever	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3 Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4 Whooping Cough... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...
5 Diphtheria	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...
6 Tuberculosis of Respiratory System	1	...	3	1	1	...	...	...	4	3	2	4	8	5	3	9	1	...	...	...
7 Other forms of Tuberculosis	1	...	1	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
8 Syphilitic Diseases	...	...	...	...	...	...	...	...	...	...	1	...	2	...	1	...	...	...	...	...
9 Influenza	1	1	...	2	2	2	...	...	...	2	...	3	2	1	1	1	2	...	...	...
10 Measles	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
11 Ac: polio-myel: & polio-enceph:	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12 Ac: inf: enceph:	...	...	...	...	1	...	...	...	1	1	...	...	...	...	2	...	...	...	...	...
13 Cancer of b: cav: & cesoph: (M.)	...	1	2	1	1	2	1	...	1	...	1	5	4	1	4	1	1	1	...	1
14 Cancer of stomach & duodenum	2	...	2	...	4	4	1	1	5	1	5	2	4	5	2	2	4	3	...	...
15 Cancer of breast	...	3	...	3	...	1	...	2	...	5	...	4	...	2	...	4	...	3	...	1
16 Cancer of all other sites	7	5	12	6	6	4	3	5	13	9	22	9	19	13	18	24	10	9	1	1
17 Diabetes	...	...	1	...	...	...	...	...	1	...	2	2	1	3	2	3	1	1	...	...
18 Intra-cran: vasc: lesions	7	7	10	13	9	7	4	...	15	14	17	28	5	20	21	20	12	19	...	...
19 Heart Disease	15	16	32	33	19	15	5	8	27	27	52	46	52	47	62	54	27	34	1	3
20 Other Diseases of Circulatory System	3	...	1	2	...	2	2	3	4	2	6	2	9	9	9	14	2	...	...	...
21 Bronchitis	3	...	3	2	2	2	...	2	3	8	10	5	12	11	12	4	6	3	...	1
22 Pneumonia	3	1	4	3	1	1	1	...	1	3	3	2	9	3	3	5	2	1	...	...
23 Other Respiratory Diseases	1	1	1	...	...	...	...	1	2	...	3	...	2	3	4	...	1	...	...	...
24 Ulcer of stomach or duodenum	...	...	2	...	...	...	2	...	3	1	1	...	4	...	4	2	1	...	...	...
25 Diarrhoea (under 2 years)	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1	1	...	...
26 Appendicitis	...	...	...	1	...	...	...	...	1	1	1	...	...	...	1	...	...	...	...	...
27 Other Digestive Diseases	1	3	1	2	1	1	2	...	2	2	3	4	7	3	4	6	1	1	...	...
28 Nephritis	...	2	1	3	3	1	...	1	5	3	3	9	7	5	9	5	4	4	...	...
29 Puerperal & post-abortion: Septic	...	1	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...
30 Other maternal causes	...	...	...	...	...	...	...	...	...	1	...	3	...	2	...	...	...	1	...	...
31 Premature Birth	1	...	1	1	1	1	...	...	...	1	4	...	...	...	4	...	1	2	1	...
32 Cong: mal: birth inj: infant: died:	1	1	4	1	2	3	1	...	4	2	1	2	4	4	6	4	4	2	...	1
33 Suicide	...	...	1	1	...	...	...	...	1	...	1	...	2	5	4	1	1	1	1	...
34 Road Traffic Accident	3	...	2	...	1	1	1	...	3	1	4	1	4	...	2	1	2	1	...	...
35 Other violent causes	1	1	2	1	1	...	...	1	2	2	4	3	3	3	6	2	4	3	...	...
36 All other causes	7	8	10	5	11	11	3	4	9	13	13	8	15	20	19	14	8	9	...	1
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Deaths of Infants (under one year) {																				
Total	3	2	9	2	3	5	1	...	4	4	7	3	9	6	12	6	8	8	1	1
Legitimate	2	2	8	2	3	4	1	...	4	4	7	1	9	6	11	5	6	7	1	1
Illegitimate	1	...	1	...	...	1	...	...	...	...	...	2	...	...	1	1	2	1	...	...
LIVE BIRTHS—Total	68	80	181	146	110	99	22	24	142	118	224	240	295	240	279	276	148	135	7	12
Legitimate... ..	63	74	175	143	104	95	20	24	135	114	206	226	283	217	269	261	137	123	7	12
Illegitimate	5	6	6	3	6	4	2	...	7	4	18	14	12	23	10	16	11	12	...	...
STILLBIRTHS—Total	2	1	3	4	4	2	...	1	1	4	6	9	7	8	9	9	3	3	1	...
Legitimate... ..	2	1	3	3	2	2	...	1	1	4	4	7	7	8	7	9	3	2	1	...
Illegitimate	...	...	...	1	2	...	...	...	...	...	2	2	...	...	2	...	...	1	...	...

TABLE C

SANTARY DISTRICTS.	Population at Census, 1931.	Estimated Population in middle of 1946.	Area in Acres 1946	Illegitimate Births.	Still Births.	Total Live Births.	Live Birth rate per 1000	Deaths.	Death-rate per 1000	Deaths from							Deaths from Principal Zymotic Diseases.	Principal Zymotic Diseases Death-rate.	No. of Deaths under one year	Deaths under one year to 1000 Births.	Name of Medical Officer of Health at 1/8/47.
										Small-pox.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Typhoid and Paratyphoid	Diarrhoea.					
Column Number ...	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
MUNICIPAL BOROUGHES																					
Altrincham ...	29353	38300	3477	34	30	680	17·8	412	10·8	...	...	...	...	1	...	5	6	·16	24	35	*Dr. R. R. Duncan
Bebington ...	31877	45620	12234	41	25	875	19·2	489	10·7	...	...	...	...	...	...	5	5	·11	45	51	*Dr. D. O. Macdonald
Congleton ...	14666	14620	5587	23	9	273	18·7	186	12·7	...	...	...	...	...	...	...	...	...	9	33	Dr. J. Cleminson
Crewe ...	48321	50850	4386	68	30	950	18·7	627	12·3	...	...	...	...	1	...	2	3	·06	42	44	*Dr. J. Ingram
Dukinfield ...	19385	18240	1725	17	15	319	17·5	248	13·6	...	...	...	...	...	...	2	2	·11	20	63	Dr. Gladys Brice
Hyde ...	32313	30450	4170	30	17	573	18·8	452	14·4	...	1	...	...	1	...	2	4	·13	23	40	*Dr. F. W. C. Brown
Macclesfield ...	35552	34640	4640	42	17	583	16·8	483	13·9	...	...	...	...	...	...	...	...	...	25	43	Dr. R. Proudfoot
Sale ...	28071	41650	3629	35	25	751	18·0	486	11·7	...	...	...	...	...	...	2	2	·05	22	29	*Dr. R. R. Duncan
Stalybridge ...	24978	21650	3190	23	11	437	20·2	334	15·4	...	...	...	...	...	...	1	1	·05	26	59	*Dr. S. K. Appleton
Total Municipal Boroughs	264516	296020	43038	313	179	5441	18·4	3717	12·6	...	1	...	...	3	...	19	23	·08	236	43	
OTHER URBAN DISTRICTS																					
Alderley Edge ...	3279	3122	699	4	3	46	14·7	43	13·8	...	...	...	...	...	...	...	...	...	...	...	*Dr. D. G. Anderson
Alsager ...	2852	4697	2241	8	6	93	19·8	52	11·1	...	...	...	...	...	...	...	...	...	4	43	Dr. H. P. Harpur
Bollington ...	5062	4907	1442	3	2	67	13·7	69	14·1	...	...	...	...	...	...	...	...	...	1	15	Dr. J. W. Chadwick
Bowdon ...	3341	3072	1090	3	2	51	16·6	50	16·3	...	...	...	...	...	...	...	...	...	2	39	Dr. W. N. W. Kennedy
Bredbury & Romiley	11690	16780	4753	17	13	307	18·3	184	11·0	...	...	...	...	...	...	...	...	...	6	20	Dr. H. R. Dugdale
Cheadle & Gatley	18535	29880	5299	24	14	532	17·8	317	10·6	...	...	...	...	...	...	2	2	·07	14	26	*Dr. D. G. Anderson
Ellesmere Port ...	23057	28740	9144	38	17	635	22·1	276	9·6	...	...	...	...	...	...	4	4	·14	35	55	*Dr. J. Birchall
Hale ...	11011	11970	2264	9	6	170	14·2	151	12·6	...	...	...	...	...	...	...	...	...	3	18	Dr. D. Connolly
Hazel Grove and Bramhall	12377	18920	4528	13	18	345	18·2	213	11·3	...	...	...	...	...	...	1	1	·05	9	26	Dr. H. R. Dugdale
Hoole ...	5892	8711	672	15	3	181	20·8	89	10·2	...	...	...	...	...	...	1	1	·11	11	61	*Dr. Mary Russell
Hoyle ...	19745	26080	5934	17	11	398	15·3	347	13·3	...	...	...	...	...	...	2	2	·08	16	40	*Dr. J. Hatton
Knutsford ...	6173	5856	2485	10	5	100	17·1	86	14·7	...	...	...	...	...	...	...	...	...	6	60	Dr. E. M. Burrell
Longdendale ...	5145	4532	3545	4	1	68	15·0	80	16·7	...	...	...	...	1	...	...	1	·22	4	59	Dr. I. B. Ogun
Lymm ...	5637	6126	4241	9	4	108	17·6	72	11·8	...	...	...	...	...	...	...	...	...	5	46	Dr. J. Cullen
Marple ...	11088	12270	7130	7	5	171	13·9	169	13·8	...	...	...	...	...	...	4	4	·33	7	41	Dr. H. R. Dugdale
Middlewich ...	5857	6206	1971	11	5	131	21·1	61	9·8	...	1	...	...	...	...	...	1	·16	3	23	*Dr. W. S. Slater
Nantwich ...	8639	8664	1177	6	10	136	15·7	110	12·7	...	1	...	...	...	...	3	4	·46	6	44	Dr. K. Knowles
Neston ...	7911	9212	8495	6	3	173	18·8	112	12·2	...	...	1	...	...	...	1	2	·22	10	58	*Dr. J. Hatton
Northwich ...	20827	19150	2146	29	18	405	21·1	248	13·0	...	...	...	...	...	...	3	3	·16	19	47	*Dr. W. S. Slater
Runcorn ...	22587	22940	2914	17	19	479	20·9	304	13·3	...	...	...	...	...	...	8	8	·35	20	42	*Dr. E. N. H. Gray
Sandbach ...	8267	8485	3716	4	7	189	22·3	97	11·4	...	...	...	...	...	...	...	...	...	7	37	Dr. J. Cleminson
Wilmslow ...	11956	15540	7694	8	10	243	15·6	183	11·8	...	...	...	...	...	...	...	...	...	4	16	*Dr. D. G. Anderson
Winsford ...	11346	11300	7094	11	8	226	20·0	130	11·5	...	1	...	...	1	...	...	2	·18	5	22	*Dr. W. S. Slater
Wirral ...	9599	16370	5639	13	6	293	17·9	194	11·9	...	...	...	...	...	...	...	...	...	7	24	*Dr. J. Hatton
Total Urban Districts	251873	303530	96313	286	196	5547	18·3	3637	12·0	...	3	1	...	2	...	29	35	·12	204	37	
RURAL DISTRICTS																					
Bucklow ...	10094	10290	46103	11	3	148	14·4	109	10·6	...	...	...	...	...	...	...	...	...	5	34	Dr. C. H. Gattie
Chester ...	14518	18310	43677	9	7	327	17·9	180	9·8	...	...	...	...	...	...	...	...	...	11	34	*Dr. J. Birchall
Congleton ...	10876	11690	38704	10	6	209	17·9	124	10·6	...	...	...	...	...	...	...	...	...	8	38	Dr. J. Cleminson
Disley ...	2614	2888	2208	2	1	46	15·9	54	18·7	...	...	...	...	...	...	...	...	...	1	22	Dr. H. R. Dugdale
Macclesfield ...	17675	19330	74142	11	5	260	13·5	210	10·8	...	...	...	1	...	...	...	1	·05	8	31	Dr. J. Cleminson
Nantwich ...	23869	25370	100844	32	15	464	18·3	303	11·8	...	...	...	1	...	...	1	2	·08	10	22	Dr. O. H. Blacklay
Northwich ...	26180	29640	57504	35	15	535	18·0	343	11·6	...	1	...	...	...	...	1	2	·07	15	28	*Dr. W. S. Slater
Runcorn ...	27580	32760	45765	25	18	555	16·9	383	11·7	...	...	...	...	2	...	1	3	·09	18	32	*Dr. E. N. H. Gray
Tarvin ...	14388	14480	62593	23	6	283	19·5	198	13·7	...	...	...	...	...	1	2	5	·35	16	57	*Dr. J. Birchall
Tintwistle ...	1392	1202	11855	...	1	19	15·8	13	10·8	...	...	...	...	...	...	...	...	...	2	105	Dr. N. Fenton
Total Rural Districts	149186	165960	483395	158	77	2846	17·1	1917	11·6	...	1	...	2	3	2	5	13	·08	94	33	
Administrative County	665575	765510	622746	757	452	13834	18·1	9271	12·1	...	5	1	2	8	2	53	71	·09	534	39	* Whole Time Medical Officers of Health.



